ST H

The CHEMIST AND DRUGGIST

for RETAILER – WHOLESALER – MANUFACTURER

JANUARY 8, 1949

DISPLAY AND RECOMMEND

'ZEPHROL'

trade mark brand

ephedrine cough syrup

an M&B product

sells at 2s. 1½d. per bottle

★ SHOWCARDS SUPPLIED ON REQUEST

★ BONUS TERMS OF 13 TO THE DOZEN AVAILABLE IN RETURN FOR DISPLAY SERVICES

manufactured by

MAY & BAKER LTD

distributors

PHARMACEUTICAL SPECIALITIES (MAY & BAKER) LTD. DAGENHAM

Index to Advertisers pp. 5 & 6

MONSANTO CHEMICALS FOR THE PHARMACEUTICAL INDUSTRY

ACETYL SALICYLIC ACID BP . . . ASPIRGRAN . . .
SALICYLIC ACID BP . . . SODIUM SALICYLATE BP . . .
METHYL SALICYLATE BP . . . PHENACETIN BP . . .
PHENOLPHTHALEIN BP . . . SODIUM BENZOATE BP . .
BENZOIC ACID BP . . . VANILLIN . . . PHENOL BP . . .
CRESOL BP . . . LYSOL BP . . . CRESANTOL-3 . . .
CRESANTOL-15 . . . CRESANTOL 15 R . . .
PCMC (CHLOROCRESOL BP) . . .

Although the supply position on many Monsanto chemicals has greatly improved, some of the above products are unfortunately still restricted. In the meantime, however, we welcome your enquiries and will be glad to give you full information on present and future availability.

MONSANTO CHEMICALS LIMITED • LONDON SW1

THE PRACTICAL EXPRESSION OF NUTRITIONAL PRINCIPLES

Sound nutritional planning dictated the formula of Farex. The blend of *three* cereals; the iron and calcium content and the added vitamin D combine in Farex to produce a smooth, bland food long accepted for infants as the logical follow-on to the purely milk diet. That is why mothers insist on Farex—and why Farex can ensure that your valuable 'baby business' continues uninterrupted into childhood. Farex is also important in the diet of the sick or convalescent adult, making nourishing, palatable, yet genuinely 'light' meals. It requires no cooking; only milk and sugar are needed. Your customers appreciate the simplicity of the 'ready-made' diet . . . and you will appreciate the generous Farex Parcel terms.

GLAXO

FAREX

Ready-Cooked 3-Cereal Food

10 oz. cartons ... 1/-

Parcel No. 5: 2-doz. x 10 oz. carton Price to you . . . 18/-

GLAXO LABORATORIES LTD., GREENFORD, MIDDLESEX. BYRon 3434

A

PILL BOXES

SCARLET
(G.P.O.)
WHITE
(P.I.)
PURPLE
W.E.(P.I.)

PURPLE
FLANGED

"LITTLE JOHN" DRUMS

CRYSTALS, POWDERS,
TABLETS

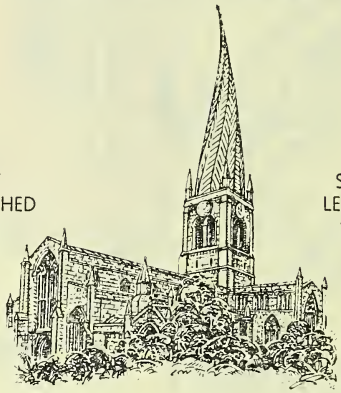
OINTMENT BOXES

CHEPETTE
GREASEPROOF

SEALITE
WAX IMPREGNATED

ROBINSONS' OF CHESTERFIELD

FIRST
ESTABLISHED
1839



STILL
LEADING
1949

FOR OVER A CENTURY

STOCK ROUND BOXES FOR THE CHEMIST

HAVE BEEN
MANUFACTURED
BY
ROBINSONS' OF CHESTERFIELD

All boxes in these categories are now
back to pre-war standards.

The quality being improved by modern methods of manufacture.

Specifications and standards are in accordance with—
N.H.S. and B.S.I. Specifications.

Supplies are **Unrationed** and your full order can be met through your usual source.

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ROBINSON & SONS, LTD.,
Wheat Bridge Mills,
CHESTERFIELD.

TELEPHONE: 2105 (6 LINES.)

LONDON OFFICE: KING'S BOURNE HOUSE, 229-231, HIGH HOLBORN, W.C.1.
TELEPHONE: HOL. 6383.

SERIES A.2.

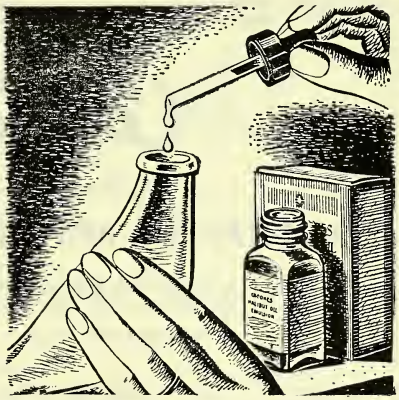
Baby's getting Vitamins A & D this new, nice way!

CROOKES HALIBUT OIL EMULSION

JUST three drops in Baby's milk four times a day. That's all! But it ensures Baby getting the right amount of those two essential vitamins —' protective ' A to give resistance to infection, ' sunshine ' D to build up sturdy bones and strong teeth. And Baby really doesn't notice those tiny drops. No teaspoonfuls, no trouble now. This new emulsion is milky-coloured, mixes in milk without the slightest trace of oiliness.

Each bottle of Crookes Halibut Oil Emulsion is supplied with a dropper, and contains enough for approximately a 3-weeks' supply. Orders for Bonus Parcels can now be executed immediately.

Mixes unnoticed in the milk



BONUS TERMS			BONUS
	12 x 15 c.c. Vials @ 3/6 Retail	£2. 2.0	1 x 15 c.c. Vial. Retail Value 3/6.
	Less 25%	10.6	
		1.11.6	
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		£1. 8.4	

THE CROOKES LABORATORIES LIMITED · PARK ROYAL · LONDON · N.W.10

What's ADDIFICATION?

Never heard of it? Why it's simply putting Cephos on display on your counter and in the window to link up with the widespread national advertising for

Cephos REGD
THE PHYSICIANS' REMEDY

Sales Multiply themselves!

P.A.T.A.

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ESTABLISHED 1874

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& EVERY DESCRIPTION OF MEDICAL PRINTING

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Chemists' Printers
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Cardophylin

TRADE MARK

(THEOPHYLLINE-ETHYLENEDIAMINE)

VASODILATOR · RESPIRATORY STIMULANT · DIURETIC

Cardophylin is a drug of outstanding value in the treatment of diseases of the Cardiovascular system, respiratory disturbances and œdema.

Supplied in :—

TABLETS for oral use, each tablet containing 0.1 g. In tubes of 20 and bottles of 100 and 250.

AMPOULES for intravenous injection, each containing 0.24 g. in 10 c.c. In boxes of 5 ampoules.

AMPOULES for ntramuscular injection, each containing 0.48 g. in 2 c.c. In boxes of 6 ampoules.

SUPPOSITORIES, each containing 0.36 g. In boxes of 10 Suppositories.

Manufactured by WHIFFEN & SONS LTD.

Home sales distribution: BRITISH CHEMICALS & BIOLOGICALS Ltd., (Benger's-Genatosan Division) LOUGHBOROUGH to whom all orders and enquiries should be sent

INDEX TO ADVERTISERS

Acton Pill & Tablet Co., Ltd. xxxvi
Allen, Stafford, & Sons, Ltd. 19
Asmidar, Ltd. xxx

Bayer Products, Ltd. 9
Beatson, Clark & Co., Ltd. ... vi
Beechams Pills, Ltd. xxviii
Billig, J., & Sons, Ltd. x
Blyton, Astley & Co., Ltd. ... 15
British Cod Liver Oils (Hull & Grimsby), Ltd. xvi
British Drug Houses, Ltd., The i
British Felsol Co., Ltd. Cover iv
British Permanent Starch Co., Ltd. xii
British Rodent Exterminator Co. xxxiv
British Schering, Ltd. 5
Bronchovydrin (1945), Ltd. ... xxii
Brook, Parker & Co., Ltd. ... 20
Brummer, J. ix
Burge, Warren & Ridgley, Ltd. vi
Burroughs Wellcome & Co. ... 35
Burrough, James, Ltd. Leader Page

Camilatone Shampoos 26
Carr's Flour Mills, Ltd. 10
Carter, H. W., & Co., Ltd. 12
Cartwright, W. B., Ltd. ... 6
Castle Huskisson, Ltd. iv
Cephos, Ltd. 4
Chanel, Ltd. 26
Church & Co. (Fittings), Ltd xi
Ciba Laboratories, Ltd. Cover iii
Clinical Products, Ltd. xv
Coates & Cooper, Ltd. viii
Cooper Laboratory, Ltd. 8
Cox, Arthur H., & Co., Ltd. 17
Crookes Laboratories, Ltd. ... 3
Crosskill, C. &., & Sons xii
Cupal, Ltd. xiv
Cyclo Chemicals, Ltd. xxiv

Dae Health Laboratories, Ltd. xxv
Dales Aspirin & Tableting Co. 15
Dalmas, A. de St. Co., Ltd. 22
Daniel, Richard, & Son, Ltd. 13
Davenport, J. T., Ltd. xxx
Dendron Distributors, Ltd. ... xiii
Denver Chemical Mfg. Co. ... 34
Dolcin 29
Domestic Supplies iv
Dominion Steel Corporation, Ltd. ....Leader Page
Draper, C., & Co., Ltd. ... 22

East, Lewis, Ltd. ....Col. Supp.
Ewbanks, Ltd. xxxii

Femex, Ltd. xxx
Fennings, A. xxiv
Ferris & Co., Ltd. ii
Fink, F., & Co. ....Leader Page
Focus, Ltd. xxxvi
Franks, A., & Bartlett Co., Ltd. 15
Freudentheil, Smith & Co. Leader Page
Fryer & Co. (Nelson), Ltd. 14
Fulford, C. E., Ltd. 15

Gale, Baiss & Co., Ltd. v
Gillette Industries, Ltd. 30
Glaxo Laboratories, Ltd. 1
Goodall, Backhouse & Co., Ltd. 27
Gordon-Moore xvii
Goya 32
Greyer, Brecheisen & Co., Ltd. v
Greeff, R. W., & Co., Ltd.... 7

Haffenden, W. W., Ltd. 16
Harley, T., Ltd. xi
Harris, Hart & Co., Ltd. ... vii
Harrison, A., & Sons, Ltd.... 4
Hersom, A. G. vii
Heward, R. H., Co. ix
Hewlett, C. J., & Son, Ltd. 14
Hinders, Ltd. xii
Howard, Lloyd & Co., Ltd. 22

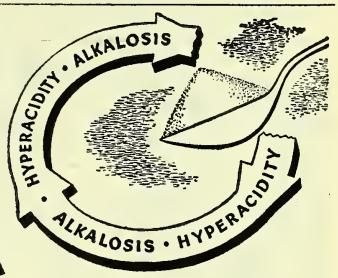
Ingram, J. G., & Son, Ltd.... vii
Instone Trading Corporation viii
International Chemical Co., Ltd. xxvii

Jackson, G., & Sons, Ltd. ... 34
Janssen's Herbal Tablets, Dr. xxxi
Jeffreys, Miller & Co., Ltd. 15

(*continued overleaf*)

The vicious circle...

Gastric ulceration requires a buffer *NOT* a drastic Alkali...



'NEUTRALON' BELLADONNA

breaks the circle

THE older drastic alkalis, by causing excessive alkalinity, promote a reflex secretion of excess acid. To break this "vicious circle" a buffering agent must be used. 'Neutralon' (Sodium aluminium Silicate) is neutral but antacid. It is mildly astringent and provides soothing protective coating of the mucosa making it perfectly safe and effective.

In modern times, 'Neutralon Belladonna' is often indicated to allay the painful vagotonic manifestations commonly associated with digestive disorders.

INDICATIONS
Hyperacidity
Hypersecretion
Duodenal Ulcer
Dyspeptic Conditions etc.

PACKS
Boxes of 100 grammes (approx. 3½ oz.)
Retails at 3/6d.
P.T. 10½d.

British Schering LIMITED

167/169 GREAT PORTLAND STREET, LONDON, W.1

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INDEX (cont.)

Kemball, Bishop & Co., Ltd. 18
Kerfoot, Thomas, & Co., Ltd. 36
Knox Laboratories, Ltd. ...xxxiii

Lambeth & Co. (Liverpool), Ltd. .....Leader Page
Lax-Vita, Ltd. xxiv
Lodge, Robin, Ltd. vi
Loveluck, Edwards & Co. Leader Page
Lusty's Natural Products Co. xxxiv

MacAndrews & Forbes, Ltd. v
Macdonald & Son, Ltd. 13
Manesty Machines, Ltd. 31
Markwell Edwards & Co. ...xxxvi
Marns, T., Ltd. xxxii
Matthews & Wilson, Ltd. Leader Page, 28
Maw, S., Son & Sons, Ltd.... 11
Maxilin Marketing Co. xxxvi
Meggeson & Co., Ltd. xxxv
Middleton & Co., Ltd. xiv
Moat, H., & Son, Ltd. xxxvi
Momand, Don S., Ltd. 24, 25
Monsanto Chemicals, Ltd. Cover ii

National Association of Opticians .....Leader Page
National Glass Works (York), Ltd. ix
Nestlé, C., & Co., Ltd. 10
North British Rubber Co., Ltd. 8
Northern Centre x

Oakfield & Co. .....Leader Page
Optabs, Ltd. xxiii
Orridge & Co. .....Col. Supp.

Pears, A. & F., Ltd. 32
Percenta, Ltd. xi
Pharmaceutical Specialities (May & Baker), Ltd. Front Cover
Phillips, Chas. H., Chemical Co., Ltd. xxix
Pierson, Morrell & Co., Ltd. ii
Porosan, Ltd. xviii
Potter & Clarke, Ltd. 33
Prestoband xiv

Reliance Trading Co., Ltd. xxxvi
Richter, Gedeon (Great Britain), Ltd xxviii
Robinson & Sons, Ltd. 2
Rose, J. L., Ltd. iv

Salter, George, & Co., Ltd. ii
San-Mex, Ltd. xxvi
Schutze, F., & Co., Ltd. ... ii
Scurr, C. A. xxxvi
Sessions, Wm., Ltd. Leader Page
Sigal, S., & Co., Ltd. 28
Simcompany, The xxxvi
"Solazzi" iii
Splendor, Ltd. xxviii
Sponcel, Ltd. 21
Stanning Proprietaries, Ltd.... xxii
Stewart, Goodall & Dunlop, Ltd. .....
Sumner, R., & Co., Ltd. ...

Tampax, Ltd. x
Teasdale Chlorodyne Co. ... x
Trade Mark Protection Society Leader Pa

United Glass Bottle Manufacturers, Ltd. x

Vichy Celestine .....
Virginia's Hollywood Prep. (1936), Ltd. .....
Vigon, J. J., & Co. xx

Walker, W. & F., Ltd. .....
Wander, A., Ltd. .....
Wallace (Pharmaceutical Products), Ltd. .....
Warren, Stanley, & Co., Ltd. xx
Washington Chemical Co., Ltd. xx
Whiffen & Sons, Ltd. .....
Wilcox, Jozeau & Co., Ltd.
Wiseman, J. H., & Co., Ltd. xx
Wood Bros. Glass Co., Ltd.
Woodward, G. O., & Co., Ltd. .....
Woolf, Lewis, Ltd. .....

Zeal, G. H., Ltd. .....Cover
Zems, Ltd. .....

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Specialists in the manufacture of Tablets and Pills

40 years of Specialised Manufacturing Experience assure you of

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PACKED TABLETS, with Chemist's Own Name Labels if desired, supplied in 2 sizes 25's and 100's (with a few exceptions packed in 50's only).

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SACCHARIN TABLETS in pkts. of 100 or in Bull

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Telephone: 8612 *Watford* Telegrams: "Science"

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FOCAL POINT FOR RUBBER PRODUCT

Air Cushions, Hot Water Bottles, Nursing Aprons, Water Beds, Cot Sheets, Combs and many other high quality NORTH BRITISH Rubber Products in steady demand are obtainable through your wholesaler.

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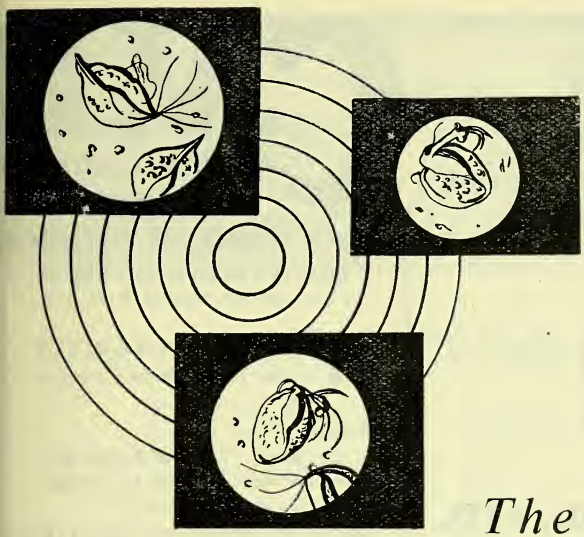
THE NORTH BRITISH RUBBER CO. LTD. EDINBURGH, LONDON & BRANCH



The picture in

LEUCORRHŒA . .

Three or four flagellae in front, an undulating membrane, and one flagellum behind. With this equipment the trichomonas vaginalis parasite produces its characteristic symptoms and calls for specific treatment.

'Devegan' provides this. The arsonic acid component destroys the organism; the carbohydrate constituent restores the normal vaginal flora.

Initial treatment is preferably by insufflation of powder. Later the patient is instructed in the insertion of tablets.

Trade Mark **'DEVEGAN'** Brand of VAGINAL TABLETS

Supplied in *Powder* form — boxes of 5 x 4g. and *Tablets* form — packings of 30, 150 and 1,000. Each Tablet contains 0.25g. acetylaminohydroxyphenyl — arsonic acid; each 4g. of powder contains 0.8g.

BAYER PRODUCTS LIMITED

AFRICA HOUSE · KINGSWAY W·C·2 · (*Tel. HOLBORN 8730*)

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CONCERNING THE DISTRIBUTION OF ALURA AND NESTOL

C. NESTLÉ & CO., LTD.

of

Branscombe, near Seaton, Devon

(Branscombe 249)

announce that the Sole Distribution to the Retail Chemist (Home Trade) of their famous products

ALURA

Colour Wave Set

and

NESTOL

has now been taken over by

DENDRON DISTRIBUTORS LTD.

3 FLEET LANE, LONDON, E.C.4

to whom all enquiries and correspondence should be addressed on and after 1st Jan., 1949

C.V.B

CARR'S VITAMIN B_1

PREPARED WHEAT GERM

A RICH SOURCE OF VITAMIN B_1

Eaten as a cereal or sprinkled on other cereals, stewed fruit, etc.

ONLY FROM CHEMISTS

3/- per large (14 oz.) packet

TRADE:

27/- doz. **Case of 2 doz. 54/-**

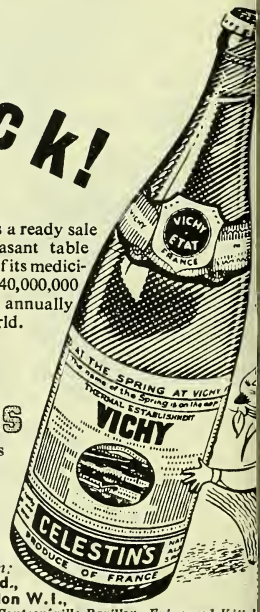
Net Delivered *Case 3/- returnable*

FROM PRINCIPAL WHOLESALERS OR FROM THE MANUFACTURERS

CARR'S FLOUR MILLS Ltd., CARLISLE

Back!

Vichy-Célestins has a ready sale not only as a pleasant table drink, but because of its medicinal properties. Over 40,000,000 bottles are sold annually throughout the world.



VICHY-CÉLESTINS

The World-Famous French Spa Water

Bottled as it flows from the Spring

★ *Sole Agents for the United Kingdom:*
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meritor

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The Meritor Series is renowned also for its outstanding packaging. Every Meritor item is presented in a manner significant of the high quality of the product and designed to provide the maximum display value.

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MERITOR D.D.T. ANTIMOTH
MERITOR PLASTIC EYE BATHS
MERITOR BABY POWDER
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MERITOR CORN & BUNION PLASTERS
ETC., ETC.

There are over fifty items in the Meritor Series, not including individual items of packed pharmaceuticals

IT WILL PAY YOU TO PUSH MERITOR GOODS AT EVERY OPPORTUNITY

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The House of Maw
• SUNDRIES • PROPRIETARIES
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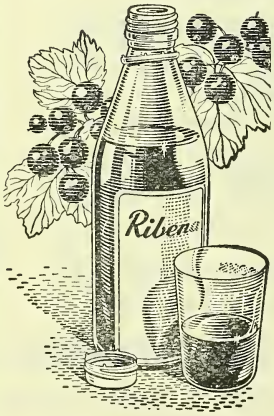
THE MINISTRY OF FOOD RE-CONFIRMS THAT RIBENA IS STILL A PRIORITY....

for babies, children, expectant and nursing mothers, and special classes on prescription.

With the continued conscientious distribution by the Chemists, there should now be enough Ribena to meet the needs of the above.



Ribena

BLACKCURRANT SYRUP

Ribena is the pure undiluted juice of fresh ripe blackcurrants in the form of a delicious syrup. It is particularly rich in natural vitamin C (not less than 20 mgm. per fluid ounce) and associated factors. Being freed from all cellular material, Ribena cannot upset the most delicate stomach.

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SUNDRIES DRUGS
TABLETS & PILLS

FOR CHEMISTS

Manufacturing Chemists

Head Office & Works Mansfield Road Derby Telephone 4266 (3 lines) Branch Warehouse Grosvenor St. Ashton-under-Lyne Telephone 2816 (2 lines)

New Prices for the New Year!

You can now buy Dimples Feeding Bottles at the following new prices :—

	One Doz.	Three Doz.	Six Doz.
Double-ended, 8 oz.	9/-	8/9	8/6 per doz.
No. 1. Upright 8 oz.	8/-	7/9	7/6 ,,
Double-ended, 4 oz.	7/6	7/3	7/- ,,
No. 1. Upright 4 oz.	7/6	7/3	7/- ,,

START 1949 WELL BY STOCKING DIMPLES—A FEEDER WHICH SELLS AT A PRICE WHICH SUITS.

Dimples feeders are supplied complete with Anti-Colic Teat. They are packed in attractive cartons which are wrapped in transparent tissue to prevent soiling in stock or on display.

Dimples Anti-Colic Teats, in cartons (one doz. in display outer). Price 2/- per doz.; 21/- per gross.

Dimples Feeders and Teats are supplied to chemists only.

ACDONALD & SON LTD., HOPE MILLS, POLLARD STREET, MANCHESTER, 4

The demand for counter lines is maintained. Satisfy your customers need for a sedative cough linctus by recommending

TUSSI-RUBE

CONCENTRATED LINCTUS

4 oz. SIZE COST 18/- doz. plus 6/- P.Tax. RETAIL 2/3 plus 6d. P.Tax

Through your usual wholesaler or direct from:

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***also at* 48 CARSTAIRS STREET, GLASGOW, S.E.**

For cool customers

Victory·V

GUMS & LOZENGES N33

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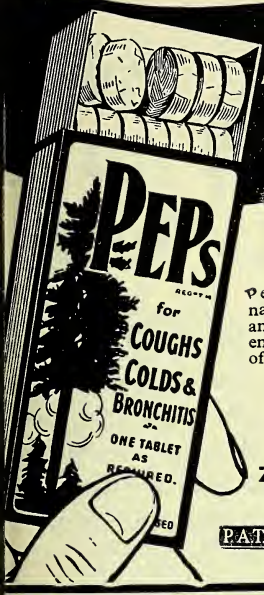

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ORDER A FURTHER SUPPLY *Now* TO LAST OUT THE WINTER

Peps are being well advertised in national and provincial newspapers and periodicals. Is your stock big enough even for the normal run of coughs, colds and sore throats?

Can you cope with the demand if there should be cold and 'flu epidemics? Better order more stock now before supplies become more difficult.

Be sure also that you have ample supplies of:—

BILE BEANS
ZAM-BUK OINTMENT
ZAM-BUK Medicinal CREAM
ZAMCONES Suppositories
GUY'S TONIC & PILLS
KUTNOW'S SALINE
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BLYTON ASTLEY & CO., LTD.
Eagle Laboratories
LOWER BROUGHTON, MANCHESTER
thank their customers for their patience and forbearance during these difficult times, and assure them that every effort is being made to supply quickly lines which they have previously purchased.

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Sole Manufacturers: JEFFREYS, MILLER & CO. LTD (A6500 I.U., D400 I.U. PER FL. OZ.)
Leyland Mills, Wigan. *London Dept.* 19 Brookside Rd. N

Malt Extract with added Natural Vitamins

"*Silktona*"

HOME PERMANENT WAVE

(*Guaranteed*)

Price to the Public 3/9 including Tax | Order now from your usual Wholesalers

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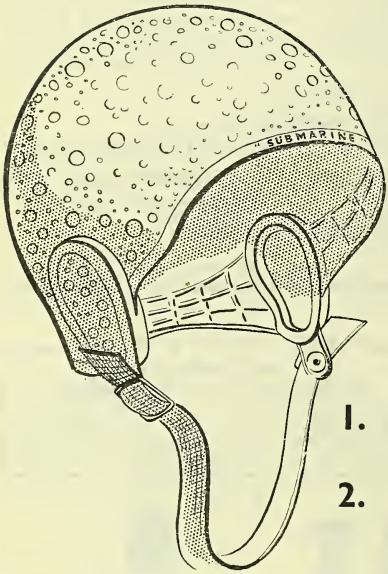
STANDARD SACCHARIN TABLETS

. . . a limited quantity available in regular amounts

THE DALES ASPIRIN & TABLETING CO.
STEETON, Near Keighley, Yorks.

Submarine Empire REGD. SWIM CAPS

★ WILL BE IN DEMAND EVERYWHERE



The "Submarine Empire" is undoubtedly the most efficient swim cap on the market; the steady sales over many years have proved this to be the case even though sales have not been promoted by large advertising. Now an intensive advertising campaign is being launched which will stress the two main advantages of the **"SUBMARINE EMPIRE."**

1. It is Guaranteed Watertight

2. It is Comfortable

Each "Empire" cap is packed in an attractive carton with transparent window. This, together with the **FULL-COLOUR SHOW CARD** will make an effective counter, shelf and window display.

Prominent among the publications in which "Submarine Empire" advertising will appear are:—Daily Express; Daily Mail; Daily Mirror; Daily Telegraph; Times; Sunday Dispatch; Sunday Pictorial; Observer; Vogue; Punch; Good Housekeeping; Tatler; Picture Post; Woman's Journal; Illustrated; Woman's Own; Woman and Beauty, etc.

"Submarine Empire" can be obtained through all good Wholesalers

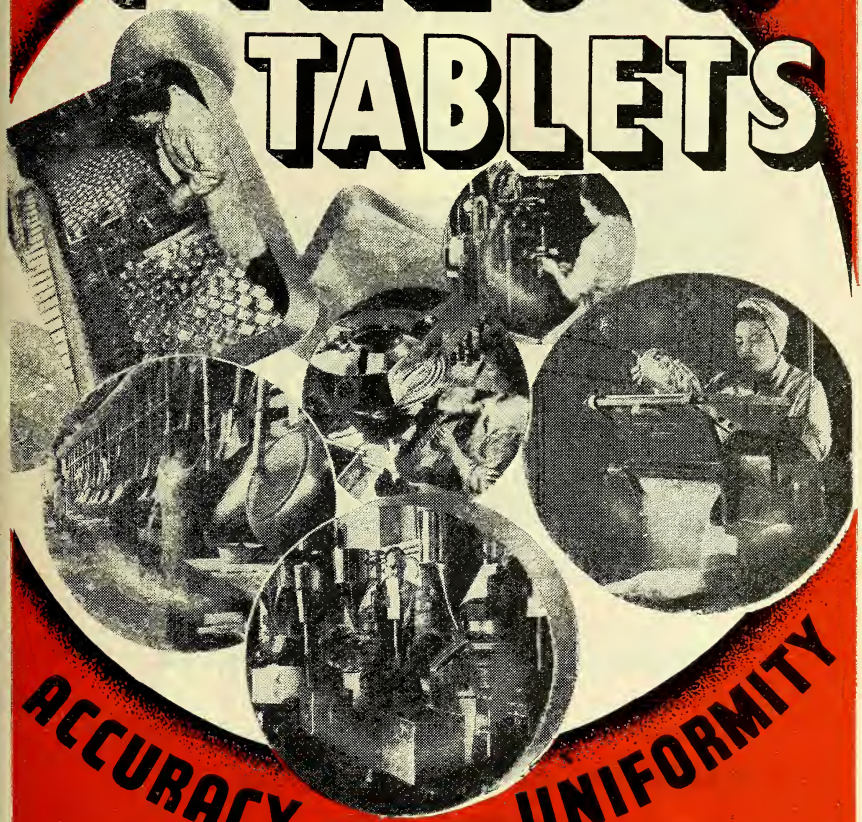
Manufactured by

W. W. HAFFENDEN LIMITED

RICHBOROUGH RUBBER WORKS, SANDWICH, KENT. Tel.: SANDWICH 38

MASS PRODUCTION of

PILLS & TABLETS



ACCURACY UNIFORMITY

ARTHUR H. COX & CO. LTD

MANUFACTURING CHEMISTS . BRIGHTON . 7.

CITRIC ACID

TARTARIC ACID · CREAM OF TARTAR

ROCHELLE SALTS · CALCIUM GLUCONATE

LITHIUM CHLORIDE · LITHIUM CARBONATE

LITHIUM HYDROXIDE

OF

GUARANTEED QUALITY

Kemball, Bishop

and Company Limited

ESTABLISHED 1870

MANUFACTURING CHEMISTS

Products under Development and Research

FUMARIC ACID · ITACONIC ACID

KOJIC ACID

CROWN CHEMICAL WORKS, THREE MILL LANE, BROMLEY-BY-BOW, LONDON, E.3, ENG.

Telephone: ADVANCE 1234 (6 lines) Telegrams: KEMBALL, LONDON, ENG.
CODES ABC 6th, Bentleys Private

StaffAllenS
Founded 1832

MEDICINAL EXTRACTS

SOLID—Powdered or Granulated—and LIQUID EXTRACTS

Such as

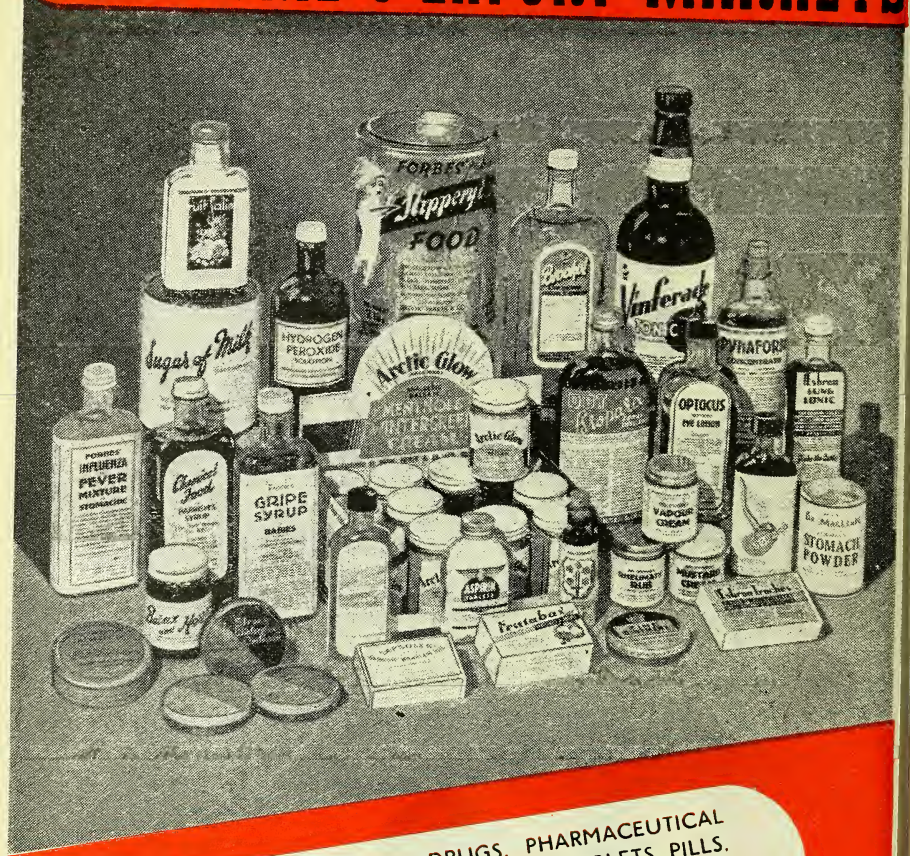
CASCARA
GLYCYRRH.
GENTIAN
IPECAC.
KOLA
SENEGA
etc. etc.

For over a century we have been noted for extracts of the finest quality and purity. Send us your enquiries and orders.

STAFFORD ALLEN & SONS LTD. Wharf Rd. London N.1 CLErkenwell 1000

TAS/AC 278

FOR HOME & EXPORT MARKETS



Specialists in VEGETABLE DRUGS. PHARMACEUTICAL CHEMICALS, GALENICALS, COMPRESSED TABLETS, PILLS, PACKED GOODS. ALSO CAPSULES, SUNDRIES DRYSALTERIES, DISINFECTANTS, ETC. PHOTOGRAPHIC APPARATUS, CHEMICALS & SUNDRIES

BROPARCO ASHFIELD TRADE MARK

Brook, Parker & Co. Ltd.

MANUFACTURING CHEMISTS - ASHFIELD - BRADFORD - ENGLAND

TELEGRAPHIC ADDRESS: BROPARCO, BRADFORD - TELEPHONES: BRADFORD 8237-8-9

CONTAINS NO RUBBER

Spontex

A WONDERFUL SPONGE TO HANDLE...

HYGIENIC • LUXURIOUS • INEXPENSIVE

Scientific Research has produced in SPONTEX the finest sponge made or grown . . . wonderfully soft, absorbent and resilient . . . stays fresh and saves soap. SPONTEX Sponges have a long life and may be cleaned by boiling. Here is a wonderful sponge to handle, both for the user *and* you—a product backed by a mounting volume of retail aid.

ADVERTISING. **A nation-wide campaign is now in progress, with regular spaces in leading National Weeklies, Women's Journals, etc., etc. It is backed up by hundreds of posters in London's Tube Stations and buses.**

Selling Price: RECTANGULAR 4/7, OVAL 2/9 (Inc. P.T.)

Order through your usual wholesaler who will supply attractive showcards for window or counter use—or, in case of difficulty, write to SPONCEL LTD., WOLDHAM RD., BROMLEY, KENT

Telephone : Ravensbourne 2641

DALMAS OF LEICESTER ANNOUNCE

a new waterproof adhesive strapping

HERE IS DALMAS STRAPPING, a new *waterproof* plastic adhesive that supersedes old-type strip-plasters!

Like our well-known First-Aid Dressing, Dalmas Strapping gives 100% protection against water, dirt, grease, acid. In particular, it is ideal for places where a bandage would be awkward. Because it stretches *all* ways, edges stick tight while allowing freest movement of joints and muscles.

Dalmas Strapping is skin-coloured, hardly shows. Supplied in attractive sell-outs containing twelve 1/- spools, each one inch by one yard. Price 8/-. Special quantity discounts. PLACE YOUR ORDER NOW!

A. de ST. DALMAS & CO. LIMITED, LEICESTER. (Phone: Leicester 65261).
London Depot: 140-142 St. John St., E.C.1 (Clerkenwell 3399).
Leeds Depot: 14 Neville St. (Leeds 29764).
Scottish Agents: Robert Telford, 29 Waterloo St., Glasgow, C.2. (Phone: Central 2716).

We have over 60 years experience of making pills, capsules and tablets for home and overseas

HOWARD LLOYD & CO. LTD. LEICESTER

Cradle Cap

★ Quickly Cleared by HIoLITE REG.

HIoLITE clears 'Cradle Cap' in two or three applications. It is a boon to mothers. HIoLITE formulated on sound Dermatological principles, with it's soothing action gently and thoroughly cleanses the scalp and hair protecting against further infection. Recommend HIoLITE and sales will boom. Supplies now available. Retails at 1/4½. per bottle.

AVAILABLE FROM LEADING WHOLESALERS
or from the manufacturers

C. DRAPER & CO. LTD.
TWYFORD, BERKSHIRE

A Valuable Addition to the Dietary

A Delicious, Concentrated, Vitamin Food for Infants, Children & Adults

The "Ovaltine" Factory in a Country Garden.

A Product of the Ovaltine Research Laboratories

BY presenting valuable nutritive elements and important vitamins in a delicious form, "Vimaltol" offers special advantages in everyday practice to the physician. With its delightfully sweet orange flavour, "Vimaltol" is readily acceptable to every patient.

"Vimaltol" is made from specially prepared malt extract of high protein content, yeast—one of the richest natural sources of Vitamin B_1—and Halibut Liver Oil, an important source of Vitamins A and D. It is also fortified with additional vitamins and mineral salts, and is deliciously flavoured with orange juice.

"Vimaltol" has, therefore, an important therapeutic value where the deficiency of certain essential food elements in the dietary has resulted in abnormal conditions. Its regular use assists the development of the growing organism and the maintenance of correct metabolism while raising the general resistance against infection.

"Vimaltol" has thus a very wide application in practice for children and adults of all ages. It can be recommended with advantage at all seasons.

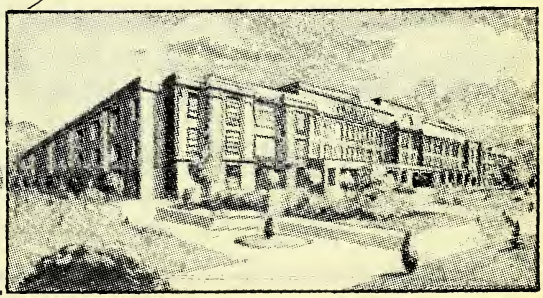
On the PATH

Wholesale Prices:

1 lb. Jars **27/-**; 2 lb. Jars **49/6**
(Exempt from Purchase Tax)

Retail Prices: 1 lb. Jars **3/-**; 2 lb. Jars **5/6**

For further details write to:
A. WANDER, LTD., 42 Upper Grosvenor Street, Grosvenor Square, London, W.1



M.346

WHAT AN EPIDEMIC MEANS

THE *Story* OF AN EPIDEMIC—AND ITS *Sequel*

1928—the year of America's second greatest epidemic of colds and influenza! It was estimated that some 50% of the population was affected.

Here are some extracts from a memo by the President (at that time) of Miles laboratories, Inc., of Elkhart, Indiana, U.S.A.

★ ★ ★

'At the height of the epidemic, Dr. Miles Laboratories had 25% of its employees absent on account of this scourge.

'One morning I went over to the office of our local newspaper, the ELKHART TRUTH. The Editor told me he had loaned two linotype operators to the NEWS-TIMES as all their operators were down with the 'flu, and they could not get out their paper.

'I asked the Editor how he could do this, and he told me that not one of their employees had lost any time on account of colds and 'flu—when a member of his staff showed signs of coming down with a cold, he dosed him with aspirin and bicarbonate of soda, with instructions to continue until he was free from symptoms.

'When I returned to our Laboratories, I asked our chief chemist, a very experienced man, if he could make an effervescent tablet containing bicarbonate of soda and aspirin. In about a week, he brought down some very satisfactory samples containing:—

Acetyl-Salicylic Acid	5 grs.
Citric Acid - -	17 grs.
Sodium Bicarbonate -	26½ grs.

Important Notice!

Dendron Distributors Ltd. have pleasure in announcing that they will take over distribution to the wholesale trade of the following products as from January 1st, 1949:—

D.D.D. PRESCRIPTION
D.D.D. BALM
D.D.D. SOAP
D.D.D. SHAVING SOAP
D.D.D. TALCUM POWDER
D.D.D. FACE CREAMS
KOKO for the HAIR
KOKO CREAM SHAMPOO
NALDEK PILE OINTMENT
DENNISOL for dogs
ALURA WAVE SET
NESTOL

TO ALL WHOLESALERS
This change in distribution policy will benefit YOU. Now you can get all these products together — ONE delivery — ONE invoice.

TO ALL RETAILERS
Make sure you have ample stocks to fill demand which 1949 advertising will create. *Write for latest price list and display material.*

DENDRON DISTRIBUTORS LTD
3 FLEET LANE · LONDON E.C.4

Phone: CENtral 2185 Grams: CUMAFODRA, CENT. LONDON

A REMINDER

CHEMISTS' FORMULA

RETAIL PRICES

1/6 & 2/9

Including Purchase Tax

CUPAL MARGINS AND DISCOUNTS

CUPAL LTD., MANUFACTURING CHEMISTS **BLACKBURN**

DRUGS · GALENICALS · PILLS·TABLETS · PROPRIETARIES · CHEMICALS · APPARATUS

CHEMISTS -

IF YOUR LOCATION IS

NORTH EAST-

Your Enquiries will be welcomed by:

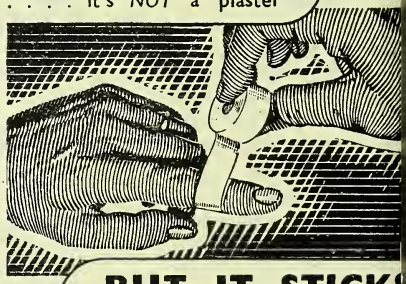
MIDDLETON & CO. LTD.

BOUNDARY ROAD MIDDLESBROUGH

SPEEDY Delivery IN OUR OWN VANS WHEREVER POSSIBLE. Tel 3207

NOT STICKY

. . . . it's *NOT* a plaster



BUT IT STICKS

. . . it's *MORE* than a band

PRESTOBAND

THE ANTISEPTIC SELF-ADHESIVE BANDAGE STICKS TO ITSELF — BUT NOT TO THE SKIN

Details from the Sole Distributors

FASSETT & JOHNSON LTD

86 Clerkenwell Rd. London, E.C.1 and 6 Crow St. Dublin

MADE BY VERNON & CO. LTD., PRESTON, LANCS.

FOR THE INFORMATION OF PHARMACISTS

THIS ANNOUNCEMENT IS NOW APPEARING IN LEADING MEDICAL AND NURSING JOURNALS

SAFE Persomnia TRADE MARK OR BARBITURATES?

The frequently reported losses of barbiturates announced by the B.B.C. are considered to be, more often than not, attempts by addicts to obtain additional supplies of the drug. The medical profession is therefore rightly reluctant to prescribe this drug frequently or for long periods.

The best means to stop such undesirable practice is to restrict prescriptions of barbiturates to cases which are not likely to respond to other sedatives or hypnotics.

Persomnia, a combination of two ***open-chain*** ureides* — bromisovalerylurea and carbromal — has been proved by long clinical practice to be as effective as barbiturates in practically all cases in which a sedative or mild hypnotic is indicated. The preparation discloses a marked synergistic enhancement of effect as compared with the therapeutic value of the two component drugs *individually* employed.

Barbiturates are* ***closed-chain* *ureides*

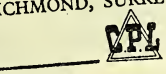
Some of the advantages of PERSOMNIA over barbiturates are the following:

- *Safety in use, even in doses largely in excess of therapeutic requirements*
- *Not habit-forming*
- *No after-effects*
- *No effect on the normal circulation*
- *Minimal risk of bromism*
- *No cumulative action*
- *Well tolerated*
- *Rapid absorption and excretion*
- *Induces quiet sleep without preliminary excitement*

NOTE :— Persomnia has no official B.P., B.P.C., or N.(W.)F. equivalent.

Free clinical samples and literature will be gladly sent on requsst

CLINICAL PRODUCTS LTD.
RICHMOND, SURREY, ENGLAND



PRICE:

PERSOMNIA TABLETS

2/6 and 5/-

(including Purchase Tax)

Medical Brochures describing this preparation in detail will be gladly sent to Ms.P.S. on application to:

Medical Department
CLINICAL PRODUCTS LIMITED
Richmond, Surrey, England

For the usual attractive C.P.L. discounts and terms apply
SOLE DISTRIBUTORS:

MOORE MEDICINAL PRODUCTS LTD.

England & Wales
64 GLOUCESTER PLACE, LONDON, W.1.
Welbeck 5718/9

Scotland & N. Ireland
1 QUEENS TERRACE, ABERDEEN
Aberdeen 6000/1

You must be in on this!

Stronger advertising than ever for SevenSeaS this season. A really striking showcard. And window display material — free of charge. Write to-day for showcard and for display material (*stating width and height of display space*). And here's a tip for your assistant. SevenSeaS is much more than vitamins. It's a real energy maker — in these days of fat shortage too! More than that! It gives the special fats known to produce that natural, soft skin, and glossy hair which mean so much to a woman. This is where you can make a friend of your customer.

SEVENSEAS PURE COD LIVER OIL

British Cod Liver Oils (Hull & Grimsby) Ltd., St. Andrew's Dock, Hull

Believe it or not—

this is the TRUTH

★ ★ ★
★ ★
★ *IT* ★
★ *ROSE-TINTS* ★
★ *THE GUMS* ★

1. Gordon-Moore's Dentifrice (Cosmetique) is selling at the rate of 157 times its previous sales—yes—157 times! That's success.

2. But letters coming to us daily still inform us of chemists who do not stock it. If you are one of these, you are losing sales. **Please** help us and help yourselves, by getting in a stock today from your wholesaler or direct.

3. Gordon-Moore's is the most unique toothpaste in the world. It ROSE-TINTS THE GUMS to match any lipstick. It is tremendously popular with the young cosmetic-conscious women. Tell them about it and you'll make sales—and repeats.

4. Now extensively advertised.

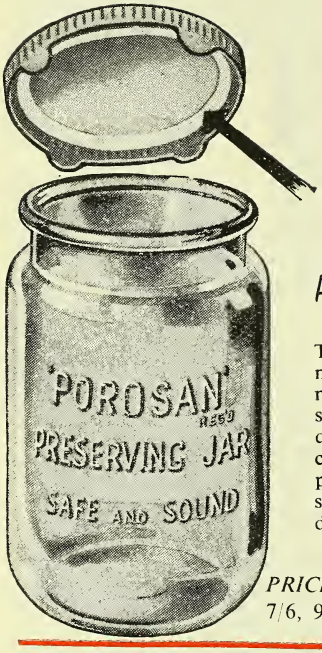
5. At 2/6 (inc. tax) you get a handsome profit on each tube of toothpaste sold.

Push Gordon-Moore's — *It Pays!*

GORDON-MOORE'S DENTIFRICE (COSMETIQUE)

(LONDON & HOLLYWOOD) 31, SINCLAIR ROAD, KENSINGTON, LONDON, W. 14

PPP PEOPLE PREFER POROSAN



PALM PRESSURE MOULDS IT ON - THANKS TO THE EXCLUSIVE POROSAN RING

A SALES IDEA THAT'S SELLING MILLIONS

The POROSAN RING moulds itself to the rim and makes a perfect imperishable seal. Wide necked jars give quick and easy packing. No clips or other gadgets, a one-piece closure. Nothing to be screwed on and there's no danger from bursting jars.

PRICES :
7/6, 9/6 *AND* 12/6

REPLACEMENT
RINGS AND CAPS
Prices : 3/- per dozen
Spare Rings 1/- per dozen

For odd and outsize JARS and BOTTLES

POROSAN SKIN

Improved, thicker and better than ever before. Made in rolls sufficient for 6 and 18 jars at 2/- and 5/- per roll respectively.

BOOK EARLY WHILE STOCKS ARE AVAILABLE ORDERS TAKEN NOW FOR IMMEDIATE EXECUTION OR FORWARD DELIVERY IN JANUARY OR FEBRUARY 1949

Sole Distributors to Chemists

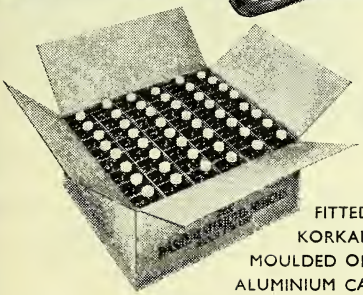
S. MAW, SON & SONS, LTD

P.O. Box 54 BARNET ALDERSGATE HOUSE, BARNET, HERTS

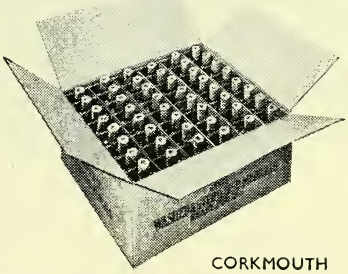
Marketed by POROSAN LTD. 4-5 WARWICK COURT, LONDON, W.C.1

The Complete Service

WASHED AND STERILISED READY FOR USE



FITTED KORKALITE, MOULDED OR ALUMINIUM CAPS



CORKMOUTH

UGB

UNITED GLASS BOTTLE MANUFACTURERS LTD.

LEICESTER STREET, W.C.2

Tel.: GERRARD 8611 (15 Lines) Grams: UNGLABOMAN, LESQUARE, LONDON

Infants Feeding Bottles -
Upright & Double-ended

MAKERS OF FINE GLASSWARE SINCE 1828

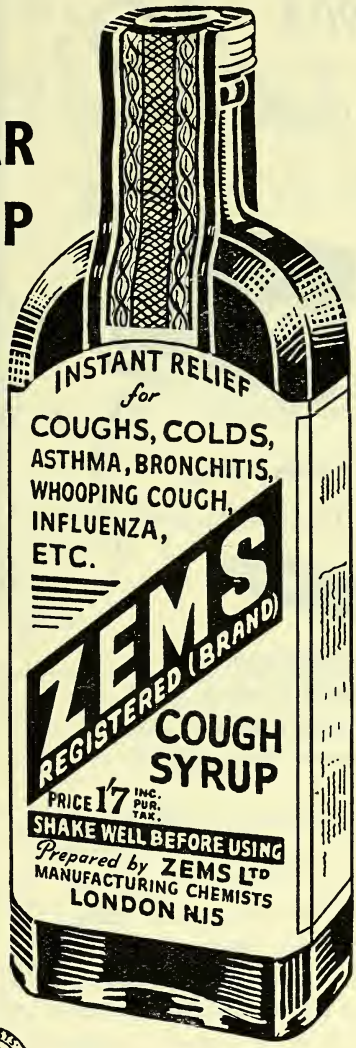
another W product

The double-ended Feeder is supplied spare, or packed in carton with Teat, Valve and Brush, the Upright Feeder, spare only. Our quality and workmanship is unrivalled, having specialised in the production of Feeding Bottles for over 100 years.

WOOD BROTHERS GLASS CO LTD OF BARNSLEY IN YORKSHIRE

THE POPULAR COUGH SYRUP

Good for the young and good for the old



Supplies may be obtained from C.F Wholesale Houses

ZEMS LTD

718/724 Seven Sisters Road, London, N.15

Telephone: STAMFORD HILL 6658-9

TAMPAX 40's

are back again!

*for both absorbency sizes **

Plus- this new, special feature . . .

neat handbag container included in every Tampax 40

The re-introduction of popular Tampax 40's is good news—both for you and for your customers. To you, Tampax 40's mean an all-at-once sale equal to 4 single packets. To your customer they mean welcome economy and convenience. Stock them side by side with the usual packets-of-ten.

There's a wide range of Tampax display units for every purpose. Send details of your requirements.

* *Regular*
TAMPAX No. 1

Super Absorbent
TAMPAX No. 2

TAMPAX LTD.,
Sales Office, 110 Jermyn Street, London, S.W.1

An
ALL-BRITISH FIRM
have pleasure in announcing that:—

BRONCHOVYDRI

is back on the BRITISH MARKET

★

EXEMPT *from* PURCHASE TAX

★

This Inhalant for the Treatment of Asthma is now Obtainable from the

Manufacturers and Sole Distributors :—
BRONCHOVYDRIN (1945) LTD.
12 WESTWOOD ROAD · BARNES · S.W.13

PRODUCTS IN CONSTANT DEMAND

★ **OPTABS**
EYE LOTION TABLETS

★ **INFLUCOL**
ORAL VACCINE FOR THE COMMON COLD

★ **EPISEPS**
GERMICIDAL THROAT PASTILLES

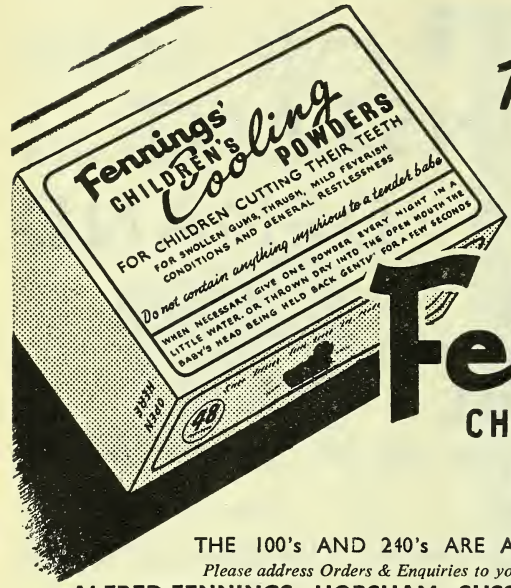
★ **SOMINOX**
SLEEPING TABLETS

These established products are now marketed by the Parent Company, Optabs Limited, from their new premises at Kemtheutic House, Bradford. The simplification of ordering, invoicing and payment will greatly help our many friends in the profession.

Enquiries will be given our immediate attention.

Optabs LIMITED

elephone : BRADFORD 28797 (10 lines) *Telegrams* : KEMTHEUTIC, BRADFORD



The Speedy Profit Maker

Fennings'
CHILDREN'S
Cooling
POWDERS

THE 100's AND 240's ARE AVAILABLE IN SHOW PACKS

Please address Orders & Enquiries to your Wholesaler or if in difficulty write :—

ALFRED FENNINGS · HORSHAM · SUSSEX · (formerly of Cowes I.O.W.)

LAX · VITA

MANUFACTURING CHEMISTS

LAX - VITA MAGNAS a reliable aperient tablet containing Vitamin B.1. which can be recommended with absolute safety. Packed in two sizes. TALVIXA STOMACH POWDER and TALVIXA STOMACH TABLETS for indigestion, heartburn, windy spasms, etc. VETOPHEN TABLETS an analgesic for neuralgia, headaches, menstrual pains, etc., and a prophylactic against colds, influenza and all feverish complaints. P.L.B. COUGH LOZENGES a sound seller with consistent repeat sales. ANTHOS a soluble sanitary towel of the finest quality. Packed in 12's. ANTHOS ALL-ELASTIC SANITARY BELTS in ready supply. LUVENE ALL-WOOL SANITARY TOWELS packed in 12's, sizes 1 and 2.

DEALERS IN HEAVY & FINE CHEMICALS

LAX·VITA LTD.
66 VICTORIA STREET · LONDON SW1
TELEPHONE · VICTORIA · 9956

Cyclo

"CYCLOCHEM"
(Trade Mark)

OWN MANUFACTURE

ORIGINAL **LANETTE WAX SX**
based on Sodium Cetyl/Lauryl Sulphate

ORIGINAL
LANETTE WAX SX 52
based on Sodium Cetyl Sulphate

ORIGINAL **LANETTE WAX S**
based on Sodium Lauryl Sulphate

All fully complying with the official standard of
CERA EMULSIFICANS B.P.

Ask for New Booklet
"CYCLOCHEM LANETTE WAXES"

CYCLO CHEMICALS LTD.
Wax Refiners and Chemical Manufacturers
MANFIELD HOUSE, STRAND, LONDON, W.C.2

Facts you should know about Valderma

. . . AS A CHEMIST

As a chemist you will be interested to know that in reports recently submitted by a Public Analyst, and independantly by an eminent bacteriologist, in which Valderma was compared with other well-known skin ointments, Valderma was shown to have a marked superiority against Staph. aureus, Staph. albus, Strep. viridans, Bact. coli communis, B. megatherium and the Diphtheroid organism. (Further details supplied to any Chemist, on request).

. . . AS A RETAILER

As a retailer you should bear in mind that persuasive, hard-selling Valderma advertisements are appearing regularly in the national and provincial Press and also on posters. Valderma is now in public demand for an increasing number of uses, so this is very definitely a line to display in your windows and on your counters. Special handy-sized display available on request.

Valderma

DOUBLE-ANTISEPTIC BALM

JARS RETAIL AT 2/2½d AND 3/10d. TRADE PRICE PER DOZEN 15/- AND 26/-
PURCHASE TAX — 5/- AND 8/8d

DAE HEALTH LABORATORIES LIMITED, RESEARCH DIVISION, 26, BERNERS STREET, LONDON W.1

Supplies available through your usual wholesaler.

for those who take

TEASDALE'S BRAND CHLORODYNE

RETAIL
1/9 and 3/11
including Purchase Tax.
WHOLESALE
12/- and 28/-
plus Purchase Tax one-third.

Manufactured by:

6 B **The Teasdale Chlorodyne Co., Huddersfield.**

SPECIAL ANNOUNCEMENT!

The BRITISH PRODUCTS SANMEX COMPANY LIMITED

Manufacturers of

SANMEX QUALITY PRODUCTS

are pleased to announce that they have appointed

Messrs. SALE TILNEY (Marketing) Ltd.
3 Lloyds Avenue, London, E.C.3

Telephone: Royal 4811 (7 lines) Telegrams: (Inland) "Saletilco, Fen. London." (Foreign) "Saletilco, London."

as sole distributors of Sanmex Products in England and Wales.
All enquiries therefore should be sent to the above distributors.
Scottish enquiries to be sent as usual to the Manufacturers :—

THE BRITISH PRODUCTS SANMEX CO. LTD

DISINFECTANT AND SOAP MANUFACTURERS

SANMEX CHEMICAL WORKS, 5-9 DALMARNOCK RD., RUTHERGLEN, GLASGOW

Telephone: Rutherglen 2209 (3 lines)

Announcing

THE *New* MORE STRIKING CARTON & TUBE FOR

. . . with the same famous, fine dental cream inside !

Even more attractive — *even more striking* — the new 'Kolynos' pack keeps the same golden colour the public knows so well, a golden glow that turns all eyes to your window and then makes a sale from your counter or shelves!

No change in 'Kolynos' sizes. No change in prices. And the advertising campaign continues in all leading papers and periodicals, telling how the penetrating foam of 'Kolynos' cleans *between* teeth, makes teeth *whiter*, leaving the mouth so refreshed.

Make sure your 'Kolynos' stock is ready to meet the big demand. Order 'Kolynos' now . . .

All over the world millions use 'KOLYNOS' morning and night

INTERNATIONAL CHEMICAL COMPANY LTD., CHENIES STREET, LONDON, W.C.1

The Greatest of All Tonics—

WITH A WORLD-WIDE REPUTATIO

The familiar Phosferine pack has won for itself an enviable world-wide goodwill. It has only to be shown to be sold. And the sales of Phosferine prove how adequately "The Greatest of all Tonics" lives up to its claims. Make the most of the wonderful popularity of Phosferine by ensuring that your stocks are adequate to meet the demand.

PHOSFERINE

TABLETS and LIQUID

The Registered Trade Mark "Phosferine" is the property of PHOSFERINE (ASHTON & PARSONS) LIMITED.

Retail Prices:
1/6 and 3/8 including Purchase Ta

Sole Distributing Agents in the United Kingdom:
BEECHAMS PILLS LIMITED, ST. HELENS, LANC

TONICS FOR THE COUNTER & ON PRESCRIPTION

PARIVITAN
VITAMIN-MINERAL TONIC

P.C.O. "PERHEPAR" COMPLEX-ORAL

P.C.O. INFANS

PARATEX

Four Tonics of proved efficacy

GEDEON RICHTER (G.B.) LTD
14-18 WEEDINGTON ROAD · LONDON · N.W.5
GUL 3478-9

PROPAX
DOUBLE POWER
TABLETS

Really Stop Pain

A double power analgesic in ever increasing demand. Prompt delivery from all wholesalers or direct from

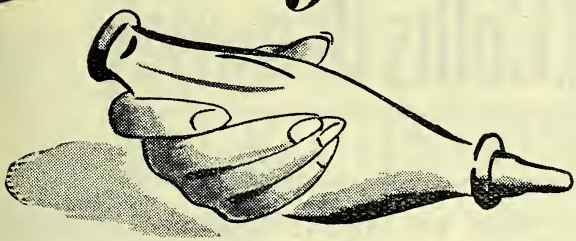
SPLENDOR LTD.

4d, 7½d, 1/7 and 2/9 Incl. P. Tax.

LONDON and NOTTINGHAM

P.A.T.A.

Bottle-fed babies—



THE Pharmacist's *advice*

Confronted, as he often is with a request for advice upon digestive disturbance when baby is bottle-fed, the Pharmacist may confidently recommend the use of * ' Milk of Magnesia '.

This antacid laxative checks the formation of indigestible protein curds and enables digestion to proceed with comfort.

Thus the baby is contented, receives full nutritional value from each feed and thrives.

'MILK OF MAGNESIA'

REGD. TRADE MARK *

THE CHAS. H. PHILLIPS CHEMICAL CO. LTD.,

179, Acton Vale, London, W.3.

Dr. J. Collis Browne's Chlorodyne
and
The Pharmacy and Poisons Act, 1933

Dr. J. Collis Browne's CHLORODYNE

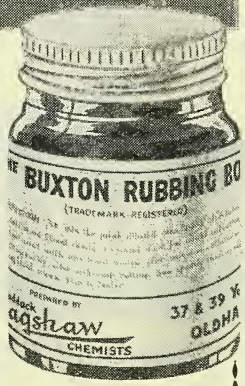
SALE RESTRICTED TO REGISTERED CHEMISTS

PURCHASER'S SIGNATURE NOT REQUIRED

Sole Proprietors:
J. T. DAVENPORT LTD.
UNION ST., LONDON, S.E.1

P.A.T.A.

For the alleviation of
RHEUMATIC AND MUSCULAR PAINS



The **BUXTON RUBBING BOTTLE** provides the continuous warmth essential to the relief of Nerve and Muscular pains. It is of assistance in the treatment of **RHEUMATISM, LUMBAGO, SCIATICA, SPRAINS, STIFF JOINTS, UNBROKEN CHILBLAINS, Etc.**

The **BUXTON RUBBING BOTTLE**
Prepa el by
BRADDOCK & BAGSHAW LTD. OLDHAM

Distributed by
FEMEX LTD.
VICTORIA HOUSE, VICTORIA STREET, OLDHAM

Ichthammol B.P.

with high organically combined sulphur content.

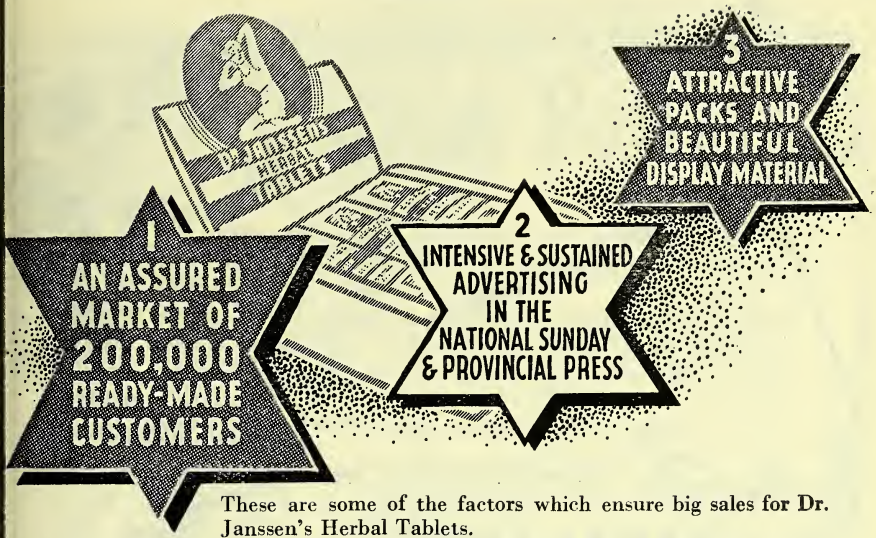
Other Asmidar Specialities include:

GLUTONINE (Asmidar)
Strychnine Gluconate — Gives prolonged action with decreased toxicity. Boxes 8 x 1 c.c. ampoules 0.002, 0.0035, 0.005 gm.

ASMIDAR ANTI-RHEUMATIC Ointment
Non Greasy, Non Staining Analgesic
Size ¾ oz. Tubes.

Also—Piperazine (Asmidar) and Sulphazol Cream (Asmidar). Literature and information gladly supplied on request.

ASMIDAR LTD
16 DOUGLAS STREET, LONDON, S.W.1
Telephone: VICTORIA 5556



These are some of the factors which ensure big sales for Dr. Janssen's Herbal Tablets.

For the past 12 years these famous Tablets have been sold direct to the public by Mail Order, but demand has so increased that distribution through the usual Trade channels has now become essential. The 200,000 existing customers are now being directed by personal letter to their local Chemists.

Intensive Press advertising is telling the Janssen story in no uncertain manner.

"Keep FIT and SLIM the Janssen way"

is a slogan that means much to the Trade. Be prepared to meet the big demand. Big profits are available to Chemists by two special introductory Bonus offers:

BONUS PARCEL "A"

	Cost	Selling
1 doz. 2/6 Dr. Janssen Tablets	16/-	24/-
1 only 2/6 ,, ,, ,,	Free	2/-
Gives you 38.4% NETT PROFIT	16/-	26/-

BONUS PARCEL "B"

	Cost	Selling
Two doz. 2/6 Dr. Janssen Tablets	32/-	48/-
½ doz. 5/11 ,, ,, ,,	19/6	29/-
¼ ,, 5/11 ,, ,, ,,	Free	14/6
Gives you 43.7% NETT PROFIT	51/6	91/6

excluding Purchase Tax.

Mark your order simply A or B parcel. It can go through your usual wholesaler if desired. All parcels over £1 carriage free.

FORMULA

	Normal		Normal
Ext. Cascara. Sag. Sicc.B.P.	25.625%	Cerevis, Ferment. Sicc.	38.541%
Ext. Aloes B.P.C.	7.500	Mrryh. B.P.	2.083
Ext. Leptandra B.P.C.	2.083	Lecithin (Ground Nut)	3.750
Ext. Gentian B.P.	3.750	Oleoresin Zingib	0.958
Ext. Taraxaci B.P.C.	7.500	Base to	100.00

DR. JANSSEN'S HERBAL TABLETS

Sole Distributors: **HARRY A. PENNEY (DISTRIBUTORS) LTD.**

Barclays Bank Chambers, Kendal, Westmorland

Keen winds but keen health . . .

Men-Lics aid breathing by warming the cold air in its passage to the lungs. They clear obstructions gently penetrating with their healthful warmth.

Ewbanks

6d. PER PACKET inc. P.T.
Trade Terms on application

"MEN-LICS"

EWBANKS LTD EAGLE WORKS · PONTEFRACT · YORK

One woman tells another

WE have been surprised to find how often an older woman recommends Juno-Junipah to younger friends.

Gently and without any harsh action Juno-Junipah is helping more and more women every week. That's why sales are steadily increasing.

JUNO-JUNIPAH

The Women's own Health Salts

THOMAS MARNS LTD.
2 Caxton Street, London, S.W.1
Phone: WHItehall 6310

The Knox Policy

The policy of the Knox Laboratories Ltd., has always been one of creating product confidence by giving users an assurance of satisfaction.

Today, in the National and Provincial Newspapers, in the wide range of Periodicals and Magazines, on the Posters in Trains, Buses and on Station Platforms—in fact in all our Nation-wide advertising the substance of following guarantee of honest trading and straightforward dealing appears.

MAKE THIS TEST

To prove that Cystex may be the very medicine you need to put you on the road to better health than you have had for a long time, get Cystex from your chemist today, price 1/7. This will enable you to see how quickly Cystex gives relief and benefit to health. If difficult to obtain, write giving chemists' name and address to Knox Laboratories Ltd., 29 Duke St., St. James's, London, S.W.1.

Both Cystex and Mendaco are considered of great therapeutic value; do all that is claimed for them, and act quickly. That is why these medicines are so often recommended by one sufferer to others.

Supplies through your usual Wholesaler.

Cystex
THE KIDNEY TONIC
For KIDNEYS, BACKACHE RHEUMATISM

Mendaco
For ASTHMA BRONCHITIS, HAY FEVER

KNOX LABORATORIES LTD.,
29 DUKE ST., ST. JAMES'S, LONDON, S.W.1
Phone: Regent 4562

A GOOD FAMILY LINE WITH A STEADY TURNOVER

HERBALENE, a nationally advertised herbal laxative, has a deservedly high reputation, for its gentle, *natural* action makes it suitable for young and old alike.

RETAIL PRICES
1/6, 2/6 & 3/8
Including Purchase Tax.

TRADE PRICES
10/-, 16/- & 24/- per doz.
Plus Purchase Tax.

Obtainable from wholesalers or direct from address below.

Attractive showcard available on request.

LUSTY'S NATURAL PRODUCTS CO.

(C.D.) Westcliff-on-Sea - - Essex.

PATTINSON'S MAGNESIA

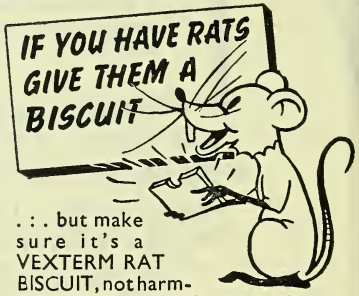
GUARANTEED B.P. QUALITY

Mag. Carb. Levis. Mag. Carb. Pond.
Mag. Oxide Levis. Mag. Oxide Pond.
Mag. Trisilicate.
Mag. Hydrate. Mist. Mag. Hydrox.

Supplied through all wholesalers by the sole manufacturers :

The WASHINGTON CHEMICAL CO. LTD.
A MEMBER OF THE TURNER & NEWALL ORGANISATION.
WASHINGTON CO. DURHAM

London Office:
Everite House, 59½, Southwark St., S.E.1
Manchester Office:
15, Pollard St. East, Manchester, 10



. : . but make sure it's a VEXTERM RAT BISCUIT, not harmful to pets, human beings or farmyard stock, but death to rats and mice. Clean, safe and easy to handle. From Chemists, Ironmongers and Stores everywhere. Price 1/6 & 5/9

VEXTERM
READY-BAITED
RAT BISCUITS
Agriculture and Fisheries Licence No. 10184
Manufactured by
BRITISH RODENT EXTERMINATOR CO. LT
PRATTS BOTTOM · FARNBOROUGH · KE
Phone: FARNBOROUGH 849

IMPORTANT TO RETAIL PHARMACISTS

is, and has always been, the policy f the House of Meggeson to reserve leggeson Bismuth Dyspepsia Tablets for sale to the public by Qualified Chemists nly. Thanks to the co-operation of Retail Pharmacists in every part of the ingdom, this therapeutically sound preparation is well on the way to becoming he leading indigestion relief. As public demand for it increases further, so will s importance to Qualified Chemists. It shows a good margin of profit and can e liberally displayed with advantage. Attention is directed to the new retail rices as follows :— SMALL SIZE 1/9, LARGE SIZE 4/6.

A PHARMACEUTICAL PRODUCT OF THE HOUSE OF

MEGGESON

THE NAME BEHIND THE CHEMIST FOR OVER A CENTURY AND A HALF

MEGGESON & CO., LTD., LONDON, S.E.16

MISCELLANEOUS OPPORTUNITIES

PACKING

POWDERS — LIQUIDS
TABLETS — PASTILLES

Packed under expert supervision.
Cellulose bags, cards, labels, supplied if required.

MAXILIN MARKETING CO. LTD.
Sharples Vale · BOLTON

OPTICAL TUITION

For the S.M.C., B.O.A., I.C.O., and N.A.O. DIPLOMA Examinations
Particulars:—
C. A. SCURR, F.S.M.C., F.B.O.A., F.N.A.O., D. Opt. F.C.O., M.P.S.
50 HIGH STREET, BARNET, LONDON, N.

PRE-PACKING & LABELLING
(We can now accept fresh orders)
LIQUIDS: From Bulk into any size bottle from ½ oz.
POWDERS & TABLETS: Mixed and packed to customers Specifications.
J. H. WISEMAN & CO. LTD.
100 Blackstock Road, Finsbury Park, N.4.

COMBS *for* SALE

IMMEDIATE DELIVERY EX STOCK
Six assorted colours
5½" POCKET COMBS - 12/- per gross
7⅛" DRESSING COMBS - 18/- ,, ,,
plus 33⅓% purchase Tax
TWEEZERS 4⅝" - - - 48/- ,, ,,
Minimum Quantity 1 gross lots
TERMS: NET CASH. FREE DELIVERED.
RELIANCE TRADING CO.
13 NEW COLLEGE PARADE FINCHLEY RD.
LONDON, N.W.3

·· MANOIDS ··
· NEVROIDS ·
URICURE TABLETS
OCCASIONAL PILLS

THE ACTON PILL & TABLET Co. Ltd.
ASH VALE SURREY
and all Sundries Houses

AMPOULES

Ampouled Injections and Powder Ampoules in large or small quantities. Specialist production under experienced Chemical and Medical supervision.
MARKWELL, EDWARDS & CO. LTD.
589 HIGH ROAD, LONDON, N.12. Hillside 5806
Telegrams: Ampuls, Norfinch, London

FLAT "PERSPEX" SHEETS, clear or coloured, cut to shape; Corrugated "Perspex" Aluminium and Plastic Sheeting and Mouldings—Henry Moat & Son, Ltd., Atom Works, Corporation St., Newcastle,

Glyceryl Mono Stearate, Cetyl Alcohol, Glycerine, Stearic Acid, Petroleum Jelly, Spermaceti Wax, Triethanolamine, French Talc, Zinc Oxide and Stearate, Iso Propyl Alcohol, Liquid Paraffin, Caustic Soda, Lanoline, Nail Varnish, Gums, Waxes, White and Essential Oils.
All Fine and Heavy Chemicals.
HOME and EXPORT
J. J. VIGON & C
30 Fenchurch Street, London, E.C
'Phone: Mansion House 0466

SACCHARIN TABLETS
STANDARD STRENGTH O·2gr. 550 Saccharin
Immediate Delivery
80/- Per Gross Packets of 100 Tablets
REMITTANCE WITH ORDER
WARREN, STANLEY & CO. LTD.
Wholesale Chemists
129 HIGH STREET, EDGWARE, MIDDLESEX

CAPSULE MAKING MACHINERY

WE are now able to install fully automatic machines for Capsule making. Write for details to:—
The SIMCOMPANY — BUSSUM — HOLLAND

Roll Film

FULLY GUARANTEED AND ATTRACTIVELY PACKED
PRICES—
" 20 " Sizes—£17/10 per gross (Incl. Purchase Tax)
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Immediate Delivery—Carriage Paid
TERMS—Pro-forma Invoice or cash with order
FOCUS LTD. 40 Sackville St., Piccadilly, London, W
Telephone MAYfair 2285

Printed by THE HAYCOCK PRESS, LTD., 106-140 Neate Street, Camberwell, S.E.5, and Published by the Proprietors, MORGAN BROTHERS (PUBLISHERS), LIMITED, at 28 Essex Street, Strand, London, W.C.2. 77/

OF 20 YEARS AGO TO YOU *Today*

AN IMMEDIATE SUCCESS. 'We used these tablets around he office and the Laboratories with very gratifying success. ater, on a Mediterranean cruise, I took with me some of hese tablets and tried them out on the passengers. We had very rough passage with continuous storms. There was an pidemic of 'flu on board the ship. I passed out these tablets nd had compliments on them and thanks for their use. It was ound that they were wonderful, not only for colds, but also or sea sickness.

This is the origin of Alka-Seltzer. It was primarily used for colds, and has now become lmost a universal remedy.'

★ ★ ★

uch is the human story of how a great roduct was born 20 years ago. Today, lka-Seltzer is not only one of the largest elling preparations sold by chemists in merica, but is known and sold extensively hroughout the world.

The fact that Alka-Seltzer was originated primarily for colds has a special ales significance for chemists at this ime of the year.

Advertisements in the National and Provincial press are telling your customers why Alka-Seltzer gives that extra fast and effective relief from the discomforts and misery of colds. Instructions for the Alka-Seltzer 'cold' treatment are included with every package. When you recommend Alka-Seltzer to your customers, you are supplying a product that was not only originated for colds, but one which has been increasingly used for this ailment over the past 20 years.

MADE BY MILES LABORATORIES · ESTABLISHED 1880

OLE DISTRIBUTORS: DON S. MOMAND LIMITED, 57 ALBANY STREET, LONDON, NW1

ACTION IN HIGH COURT

for infringement of Registered Trade Mark

CHANEL

On the 3rd December, 1948 in an action in the Chancery Division of the High Court of Justice brought by Parfums Chanel Limited, who are the proprietors of the Registered Trade Mark "Chanel" for perfumes, toilet preparations (not medicated) and toilet soaps, against Marie Chanel de Paris Limited, who, it was alleged, had been selling spurious goods marked "Chanel", Mr. Justice Harman granted injunctions against the Defendant Company, who also undertook to pay costs, and to deliver up or destroy all offending articles. The first injunction granted by the Judge was to restrain the Defendants, their servants and agents from infringing the Plaintiffs' Registered Trade Mark "Chanel" No. 602,372. A further injunction was also granted restraining the Defendants, their servants and agents from carrying on business under the title "Marie Chanel de Paris Limited" or under any other title which by reason of including the word "Chanel" is calculated to cause confusion between the goods and businesses of the Plaintiffs and Defendants.

Put this Silent Salesman in your Shop!

This fine new counter display is no mere ornament! It's been designed by experts to do a high-powered *selling* job—and do it well! Put one on show now, and watch the extra profits rolling in! Displays to hold 6 dozen (1 dozen each of 6 different shades) are supplied FREE with every order for this quantity. Trade Price: 1/5 per doz. plus 100% P.T. Selling Price: 3½d. per packet (including P.T.)

CAMILATONE TÔNRINZ

CAMILATONE LIMITED, WELSH HARP, LONDON, N.W.9.

BE READY

FOR THIS SEASON'S INCREASED EGG PRODUCTION

With extra poultry foods available, more of your customers will be preserving eggs this season. This means more requests for Goodall's Waterglass. Be sure your stocks are sufficient to meet the increased demand. Goodall's Waterglass gives a clear, clean fluid. Packed in attractive all-metal leakproof tins.

No. 1 size in 4 & 6 doz. cases; No. 2 size in 2 doz. cases

*Cases are **free** and non-returnable.*

Goodall's WATERGLASS

EGG PRESERVATIVE

GOODALL, BACKHOUSE & CO., LTD.
SOVEREIGN STREET, LEEDS

(29T)

YOU SHOULD STOCK
THE FINEST SCURF REMOVING & SCALP CLEANSING SHAMPOO

NUCTA OIL

THE SOAPLESS OIL SHAMPOO

★

Can be recommended with confidence. Nationally advertised

IN 8 oz. BOTTLES SELLING AT **3/10.** **25/-** per doz., plus tax

CARRIAGE PAID ON NET ORDER OF £2

Obtainable from your Wholesaler or direct from the Manufacturers

STEWART, GOODALL & DUNLOP LTD
121A PRINCES STREET, EDINBURGH

Complete Catalogue of Perfumery and Toilet Preparations sent on request

All products obtainable from your usual wholesaler or direct from

S. SIGAL & CO. LTD.
MANUFACTURERS OF EXCLUSIVE TOILET PREPARATIONS
74 TABERNACLE STREET, LONDON, E.C.

DOLCIN

TRADE MARK

A new American Treatment for
RHEUMATISM ARTHRITIS FIBROSITIS NEURITIS LUMBAGO SCIATICA GOUT

DOLCIN is the trade name for the new succinate - salicylate therapy for all ailments in the rheumatic group. DOLCIN has already had a pronounced success in America and Canada and brought genuine relief to countless sufferers.

DOLCIN GIVES PROMPT RELIEF FROM PAIN

By combining the newly discovered catalytic functions of succinate and the recognised action of salicylate, DOLCIN is directed both to systemic manifestations and to the prompt elimination of painful symptoms.

DOLCIN RESTORES NORMAL METABOLISM

Succinate exerts a marked stimulatory effect on tissue metabolism, greatly increasing oxygen utilisation by the tissues.

DOLCIN OBVIATES TOXICITY OF SALICYLATE

Although acetylsalicylic acid has long been recognised as the most effective analgesic agent for rheumatic disorders, its toxicity forbade massive or prolonged dosage. By compounding acetylsalicylic acid with calcium succinate in Dolcin, toxicity is obviated and large doses may be taken over long periods without any harmful effects.

« **DOLCIN** is a popular and profitable line because:

« **DOLCIN** gives prompt relief to the majority of Arthritic and Rheumatic sufferers.

« **DOLCIN** IS NON-TOXIC and has no harmful effects on the heart or any other organ and is therefore suitable for prolonged administration.

An attractive showcard and counter literature are available on request from Sole Distributors:

TAMPAX LTD.

SALES OFFICE, 110 JERMYN STREET, LONDON, S.W.1.

DOLCIN

Available from leading wholesalers.

PRICES

100's Retail : 8/- per unit plus 2/- Purchase Tax.
Trade : 72/- per doz. plus Purchase Tax.

Good mornings begin with

Gillette

Advertising campaigns come and go and most are soon forgotten. The outstanding few take a firm place in the affections of the buying public. Watch the tonic effect of the new Gillette campaign on your sales! Its original approach, its freshness and humour, will prove once again that, like each good morning, good business begins with Gillette. Gillette advertising is nation-wide—in the press and on the hoardings. Link up with it through your windows.

Trade enquiries to your usual wholesaler or direct to Gillette Industries Ltd., Great West Road, Isleworth, Middx.

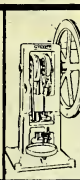
MANESTY

TABLET MAKING MACHINERY

MANESTY F3 TABLET MACHINE

OUTPUT 85 PER MIN.

TABLETS UP TO 3/4" DIAM.



MANESTY HAND TABLET MACHINE

OUTPUT 100 PER MIN.

FOR TABLETS UP TO 1/2" DIAM.

MANESTY E2 TABLET MACHINE

OUTPUT 85 PER MIN.

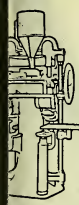
FOR TABLETS UP TO 1" DIAM.

MANESTY HAND COMPACT PRESS

OUTPUT 2000 COMPACTS PER DAY

MANESTY CP2 COATING PAN

STANDARD SIZE 30" DIAM.

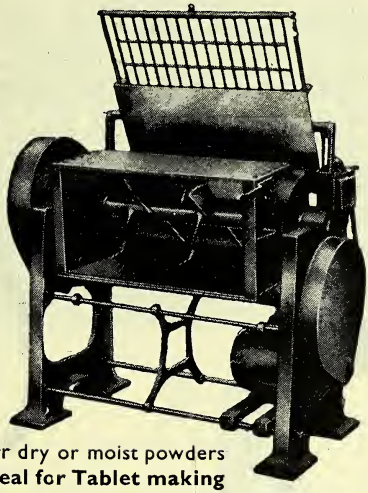


MANESTY B.B.3 ROTARY TABLET MACHINE

OUTPUT 1000-1500 PER MIN.

TABLETS UP TO 1/2" DIAM.

MANESTY MIXER

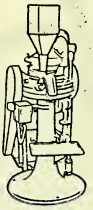


For dry or moist powders
Ideal for Tablet making

MANESTY B3 ROTARY TABLET MACHINE

OUTPUT 400-500 PER MIN.

FOR TABLETS UP TO 1/2" DIAM.



MANESTY Nº2A TABLET MACHINE

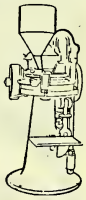
OUTPUT 55-220 PER MIN.

TABLETS UP TO 1 1/2" DIAM.

MANESTY D3 ROTARY TABLET MACHINE

OUTPUT 300-350 PER MIN.

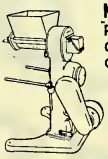
FOR TABLETS UP TO 1" DIAM.



MANESTY R.S.1 ROTARY TABLET MACHINE

OUTPUT 168-336 PER MIN.

TABLETS UP TO 1 3/8" DIAM.

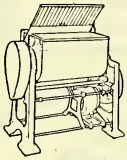


MANESTY ROTORGRAN OSCILLATING GRANULATOR

OUTPUT 150-224 LBS. PER HOUR.

MANESTY MIXER

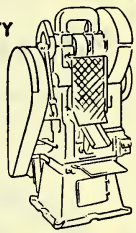
CAPACITY 100 LBS. OF POWDER



MANESTY Nº3 TABLET MACHINE

OUTPUT 30-400 PER MIN.

FOR TABLETS UP TO 2 1/4" DIAM.



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JANUARY 8, 1949
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No. 3594 Volume CLI

CONTENTS

A Cattle Trypanocide 51
A Pharmacist's Anthology 41
Birdsgrove House in 1948 47
Business Changes 36
Carob Juice 54
Colour Reaction for Vitamin A ... 44
Coming Events 64
Company News 36
Correspondence 59
Deaths 42
Editorial Articles:—
Taxation and Lack of Capital ... 49
Loans to Small Companies ... 50
Antrycide 50
Empire and World Trade 55
Formulation of Medicaments ... 47
Glycerin from Petroleum 53
Guide to New Medicaments ... 57
Irish News 35
Local News 34
Miscellaneous Inquiries 56
New Companies 36
P.A.T.A. 41
Personalities 38
Pharmaceutical Society of Northern Ireland: Council Meeting ... 45
Pharmacy in South Africa 52
Stock Exchange Prices 58
Topical Reflections 37
Trade Marks 64
Trade Notes 40
Trade Report 60
Wholesalers' Census of Distribution 43
Wills 42

NEWS OF THE WEEK

Chocolate and Sweets Ration.—The tion of chocolate and sweets for ration riod No. 7, which began on January 2 16 oz. Coupons for the period are the ur D.7 and the four E.7 coupons on p. of the ration book, each of which is orth two points.

Export Licences for Soap.—The Export censing Branch of the Board of Trade ates that it is prepared to consider applitions for licences to export soap to any estination. Applications should be subitted to the Branch at Regis House, King illiam Street, London, E.C.4.

Whooping Cough Investigations.—The ublic Health Laboratory Service is ornising trials of vaccines against whoopg cough in groups of children in Oxrd, Manchester, Leeds and London. The als are arranged through the local medil officers of health, with the parents' connt. British and American preparations e being tested, and the results so far tained show that one vaccine previously lieved effective is useless.

Appeal for Illuminated Signs.—The Electrical Sign Manufacturers' Association is to ask the Minister of Fuel and Power to permit the use between 7 p.m. and midnight of outdoor electrical signs that describe only the name of a firm and the nature of its business (their use to be subject to the present total power allocation of premises affected).

T.S.A. Penicillin Licences. — Licences under the Therapeutic Substances Act, 1925, for dispensing penicillin injections have recently been granted as follows:—

BOLTON: Bolton Co-operative Society, Ltd., 39 Market Street.

CHELTENHAM: C. & P. James, Ltd., 29 The Promenade.

LEIGH, LANCS: R. Hampson & Co. (Chemists), Ltd., 73 Chapel Street.

LIVERPOOL: Mr. J. C. Leigh, 241 Walton Village, 4; Mr. W. L. Fairhurst, 341 Upper Parliament Street, 8.

LONDON: D. Desmond & Co., Ltd., Freemasons Road, Customs House, E.16.

SUNDERLAND: G. P. Fairman & Son, Ltd., 24 Vine Place.

Key Industry Duty Changes. — The Treasury has issued a new Order (S.I., 1948, No. 2719) which makes a number of changes in the list of goods exempt from K.I.D. The Order continues until June 30 the exemption of all articles exempted by previous Orders, which expired on December 31, 1948, with the addition of: Acid caprylic (*n*-octoic acid); diethyl acetic acid; 2-ethyl hexyl alcohol; dimethylcyclohexyl phthalate; monoethylamine; lauric chloride (lauroyl chloride); and sodium nitrobenzene sulphonate. The following are omitted from the new Order: *Iso*-amylethylbarbituric acid; sodium *iso*-amylethyl barbiturate; furfuryl alcohol; butyl acetate; dibutyl phthalate; camphene; diethyl phthalate; diethyl sulphate (ethyl sulphate); and tricresyl phosphate.

Poisons List Changes.—The Home Office announces that Statutory Instruments are to be made to give effect to the following changes recommended by the Poisons Board:—(1) 6-morpholino-4: 4-diphenylheptan-3-one and its salts* will be added to Part I of the Poisons List. (2) Dinitrocresols will be taken out of Part I and added to Part II. (3) Bis-bis-dimethylaminophosphorous anhydride, diethylparanitrophenyl thiophosphate, hexaethyl tetraphosphate and tetraethyl pyrophosphate will be added to Part II. (4) 6-morpholino-4: 4-diphenylheptan-3-one will be included in the First and Fourth Schedules to the Poisons Rules. (5) Dinitrocresols become exempt from the restrictions that apply to First and Fourth Schedule poisons when sold in the form of agricultural and horticultural insecticides or fungicides. Such preparations will be excluded from the general exemption from control of all substances containing dinitrocresols and not being preparations for the treatment of human ailments; they will be the only preparations containing dinitrocresols and subject to the control of the poisons law which may be sold by listed sellers of poisons. (6) The four phosphorus compounds already named will be exempted from control when sold in any form other than agricultural or horticultural insecticides or fungicides. These preparations, and similar preparations containing dinitrocresols, will be subject only to the restrictions imposed by their being included in Part II of the Poisons List and in the Seventh Schedule to the Poisons Rules: the form of words with which they are to be labelled will draw attention to the danger of using th preparation in an enclosed place and allowing it to come into contact with th skin. (7) Registered veterinary pract tioners will be given the same facilities fo obtaining, supplying and dispensin poisons as are enjoyed by registered vete inary surgeons. (8) Rule 18 will b amended to provide that a poison may b labelled with the "Approved Name given it by the General Medical Counc (9) Rule 30 will be extended to inclu insulin in the list of poisons that may b manufactured under the supervision of duly qualified medical practitioner. (1 Rule 31 will be amended to provide th an application to be listed as a seller poisons shall be made in duplicate ar that one copy shall be endorsed by th local authority and returned to th applicant. [*See Heptalgin, p. 57.]

LOCAL NEWS

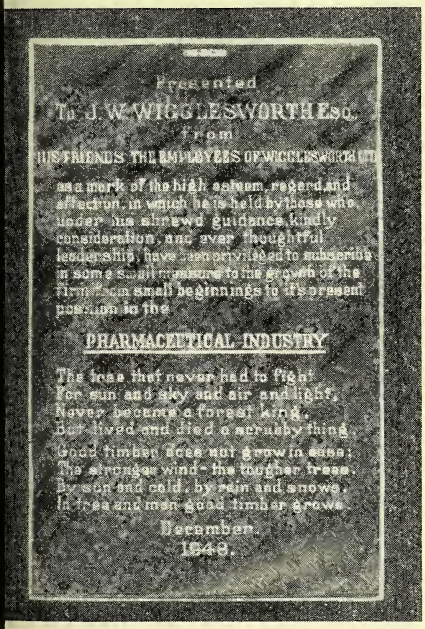
Bristol Film Show.—Students from th School of Pharmacy, Merchant Venture College, were guests at a meeting of th Bristol Branch of the Pharmaceutical S ciety on December 8, 1948, when a pr gramme of films was presented by Eva Medical Supplies, Ltd. A film "Penicill and its Applications," writes Mr. E. Lloy (secretary) proved almost too realistic f the comfort of several members.

Liverpool Annual Report.—The ninet eighth annual report of the Liverpo Chemists' Association and Branch of th Pharmaceutical Society, published recentl contains the reports and balance sheet both organisations for 1947-48, and a li of members. In addition there is an a count of the work of the Liverpool Pharm ceutical Committee, the Liverpool Bran of the Guild of Public Pharmacists and th Merseyside Branch of the National Ass ciation of Women Pharmacists.

Manchester Lecture on B.P.—A pap reviewing the galenicals of the Briti Pharmacopœia, 1948, was read at a mee ing of the Manchester Pharmaceutic Association in December 1948, by M L. H. Boardman, B.Sc., Ph.C. Mr. Boar man said that much valuable informati was included also in the introduction ar the general notices, and in the notes general processes that preceded the se tions on aromatic waters, tinctures, table etc. He recommended his audience study the notes on sterilisation and d pensing of solutions and suspensions f parenteral injection.

President Visits Wimbledon.—Guests at dinner and dance held by the Wimbledon harmacists' Association at Putney re-ntly included Mr. H. Clement Shaw resident, Pharmaceutical Society), Mr. W. Howells (treasurer) and Mrs. Howells, Ir. O. L. Crossley (president, Thames Val-y Pharmacists' Association), and Mrs. rossley, and the mayor of Wimbledon Councillor W. E. Hamlin, J.P.), and ayoress. Mr. T. James was in the chair. eplying to "The Society," proposed by e mayor, Mr. Shaw said that, under the ational Health Service, members had at resent only one job—to be good pharma-sts.

Presentation to Director. — A gift of ble silver and a silver plaque (shown elow) were presented at the annual orks party of Wigglesworth, Ltd., West-oughton, Bolton, Lancs, held recently, the company's managing director (Mr. W. Wigglesworth, M.P.S.). Making the



resentation, a works foreman expressed ppreciation of Mr. Wigglesworth's close ersonal interest in the staff over a long umber of years. Mrs. Wigglesworth was resented with a bouquet. Mr. Wiggles-vorth acknowledged the gifts, paying ribute to his co-directors.

Lecture-demonstration at Canterbury.—A lecture on "Modern Trends in Pharmaceutics" was given at a meeting of the East Kent Branch of the Pharmaceutical Society, held in Canterbury on December 9, 1948, by Mr. B. J. Thomas. Mr. Thomas explained, with demonstrations, the theory of emulsions. Pharmacists, he said, should make themselves familiar with the new emulgents, which were already being prescribed, and should be prepared to handle the wider range that would undoubtedly appear in the future. He went on to discuss problems involved in the dispensing of penicillin preparations and injection solutions and showed a plan for an aseptic area designed to comply with the requirements of the Therapeutic Substances Act. A display of equipment included a thermostatically controlled hot-air oven, an autoclave, an aseptic screen constructed of transparent plastic material, and a homogeniser.

IRISH NEWS

Food Tablets Declared Safe.—The Northern Ireland Ministry of Health and Local Government has announced that the sweets, described as digestive food tablets, which were withdrawn from sale pending analysis and investigation (see *C. & D.*, 1948.II.784) have now been analysed; nothing was found that would be in any way injurious to health.

Payments to N.I. Chemists.—The Northern Ireland General Health Services Board has made an interim payment of £64,180 to chemists and suppliers of appliances for prescriptions dispensed during November. The Board states that payments have now been made in full for July and August and interim payments for September, October and November. The total amount paid to date is £250,722.

N.I. Health Service Negotiations.—A further meeting has taken place between the Northern Ireland Pharmaceutical Negotiating Committee and the Northern Ireland Ministry of Health and Local Government on the fees to be paid for service under the National Health Service. The reports of the accountants for both sides were considered and it was decided that the accountants should continue the negotiations. It is expected that there will be another meeting between the Committee and officials of the Ministry when the accountants' negotiations have been completed.

NEW COMPANIES

THOMAS VEEVERS, LTD. (P.C.).—Capital £5,000. To carry on the business of manufacturers of and dealers in medicated sweets, etc. Annie G. Derry, Thomas Derry, Phyllis G. Derry and Alison V. Hudson, directors. R.O.: Newtown, Colne.

CHARLES BUCHANAN, LTD. (P.C.). — Capital £100. To carry on the business of manufacturers of, and dealers in, pharmaceutical and general chemists' sundries, etc. Jack Dome, Edward Murgatroyd and Charles B. Wood, directors. R.O.: 9 John Bright Street, Birmingham, 1.

SLEEPAX, LTD. (P.C.).—Capital £5,000. To carry on the business of manufacturers of and dealers in chemicals, drugs, medicines, etc. Eric G. Holmes and Stanley S. Gibbins, directors. R.O.: 274 Gresham House, Old Broad Street, London, E.C.2.

A. & W. CHEMICAL CO., LTD. (P.C.).—Capital £5,000. To carry on the business of manufacturers of and dealers in chemicals, drugs, disinfectants, etc. Leonard J. O'Hanlan and William Wall, directors. R.O.: 10 Copthall Avenue, London, E.C.2.

CARLESS CAPEL & LEONARD, LTD. (P.C.).—Capital £450,000. To acquire the business of petrol and naphtha refiners and chemical manufacturers formerly carried on at Hope Chemical Works, Lea Chemical Works, Pharos Oil Works, Hackney Wick, and St. Clements Wharf, Bow, E., by Hugh R. Leonard, John G. Leonard and Julian M. Leonard, as Carless Capel & Leonard. The directors are: Hugh R. Leonard, John G. Leonard, Julian M. Leonard, Archibald W. Lawson, O.B.E., and Lt.-Col. James C. Brown, D.S.O. R.O.: Hope Chemical Works, London, E.9.

FRASER & NEAVE (LONDON), LTD. (P.C.).—Capital £1,000. To carry on as agents in England the business of aerated water manufacturers, vendors of beverages and general merchants, carried on in the Middle and Far East by Fraser & Neave, Ltd., "Singapore Soda" Fraser & Neave, Ltd., Malayan Breweries, Ltd., and Archipelago Brewery (1941), Ltd., all incorporated in Singapore, and by N.V. Fraser en Neave, Batavia, incorporated under laws of the N.E. Indies; and to arrange the engagement of staff for service with those companies and for the ordering and shipment of goods for dispatch from the United Kingdom. James A. Clarke and Edward J. Howley, directors. R.O.: Plantation House, 34 Fenchurch Street, E.C.3.

Company News

THE BRITISH DRUG HOUSES, LTD.—Dr. Francis Howard Carr, C.B.E., D.Sc., and Mr. Reginald Robert Bennett, B.Sc., F.R.I.C., Ph.C., have retired from the board of the company. Mr. Antony Rendall, B.A., A.C.A., secretary and chief accountant of the company, has been appointed a director.

GLAXO LABORATORIES, LTD.—Sir Jeremy Raisman, Sir Maurice Hutton and Dr. Hector McDonald Walker have been appointed directors. Dr. Thomas Fotheringham Macrae has been appointed an executive director. Mr. Herbert William Palmer, who has been a director since 1940, is now deputy managing director.

Voluntary Liquidation.—HOMEPACS, LTD., manu facturing chemists, Church Street, Burslem, Stok on-Trent. The creditors were called together r cently when the statement of affairs showed rankin liabilities of £2,972. After allowing £310 for pr ferential claims, the net assets were £693, or deficiency as regarded the creditors of £2,27 The principal asset was the stock in trade whic amounted at cost to £1,885 and was estimated t realise £540. The issued capital was £1,900 ar there was a deficiency so far as the shareholde were concerned of £4,179. The company w registered in October 1943, to purchase and car on the business of a manufacturing chemist. resolution was passed confirming the volunta liquidation of the company with Mr. Snow, Bourner, Bullock & Co., Hanley, as liquidator. committee of inspection was also appointed.

BUSINESS CHANGES

MR. D. F. SHRIMPTON has taken over the bu ness of Marshall Bros (Henry H. Marshal Chemists, Moseley, Birmingham, 13, and will car it on under the same name.

MR. E. W. GODDING has resigned his position head of the medical department of Crookes Lab ratories, Ltd., to take up an appointment wi Westminster Laboratories, Ltd.

D. T. EVANS, LTD., Margate, have purchas and taken over the business of Mr. Alec McLeo M.P.S., 59 Upper Dane Road, Margate. T acquisition will bring the company's total branches to twelve.

WILLIAM MATHER, LTD., Dyer Street, Chest Road, Manchester, 15, have appointed Mr. G. Watson, 50 Filey Avenue, Upper Clapton, Londo N.16, their representative for part of London a the adjacent counties.

THE PUBLIC RELATIONS DEPARTMENT of Manch ter Oil Refinery, Ltd. (the M.O.R. group of co panies), Petrocarbon, Ltd., and Petrochemica Ltd., has been moved to new offices at 44A Dov Street, London, W.1 (Telephone: Regent 760

MR. B. W. CLARK, general manager, until D cember 31, 1948, of the Indian branch of All & Hanburys, Ltd., is returning to England aft twenty-two years in India, in order to take up appointment at the headquarters of the compa Mr. H. Turnbull has been appointed gene manager, Indian branch; he took up his duties January 1.

MR. EDWIN THOMPSON, governing director Thompson & Capper Wholesale, Ltd., Spek Liverpool, has recently sold Manesty Machin Ltd., which he owned (see also *C. & D.*, 1948. 793). The works built by Mr. Thompson at Spe in 1936 to house both companies will henceforth be wholly occupied by Thompson & Capper Whole sale, Ltd., for which there is room for still fu expansion in the seven-acre site Mr. Thomps has now no connection with Manesty Machin Ltd., having recently resigned his position director, and the company has removed to a n works at Speke.

TOPICAL REFLECTIONS

ew Year Greetings

The New Year greetings on pp. 20-25, ad as a whole, strike a clear note of re-lve. It may be that few readers of THE HEMIST AND DRUGGIST examine all these essages (to which may I add my greet-gs?); but to do so is worth while, for the ıdertone of firm purpose is welcome. ıe past year has considerable scientific tivity to its credit, as Professor E. C. ɔdds, Master of the Society of Apothe-ries of London, points out; and scienti- activity of the best kind is never ısted. Naturally, the inception of a new spensing service under the National ealth Service Act bulks largely in veral of these paragraphs. Rather sur-isingly, as it may seem, the growing ins of the process—the expression is at of the National Pharmaceutical nion's chairman (Mr. G. H. M. Graham) have been mentioned without emphasis d almost casually. The president of the ecutive Council's Association for Eng-ıd (Mr. Henry Lesser) remarks, in fact, at relations between the Association and armacists when grappling with initial oblems in the service have been "most rdial." In commending these well-osen statements to the attention of any-e who may have overlooked them, I ould like to add my agreement with the pes expressed and my belief that these pes are not unfounded. A "wilful timism" is to be shunned, but a "sober nfidence" may be regarded as another ıtter entirely.

Dies" and "Die"

Your correspondent Mr. R. H. Fawcett ses (p. 19) an interesting point. He s trained presumably (as I was), in the e of prescription books and day books th daily headings from Die Solis to Die turni. The choice between the ablative d the accusative cases in describing time Latin involves rather more subtlety an appears from your correspondent's ief reference to the subject. A full dis-ssion of the conditions is to be found on · 375 and 400-01 of B. H. Kennedy's tin grammar—and, no doubt, in the rresponding textbook of Gildersleeve. r our present purpose it is enough to te that in Latin the ablative case indi-tes the space of time within which nething happens or is done. That riod need not, of course, be a single day: an example cited by Kennedy is "hoc triennio" (within (the next or the last) three years). The traditional Latin heading Die Solis, followed by the date, in a prescription book or a day book indicates, accordingly, that on the Sunday specified the entries under that heading were made. Some readers may wonder why this interpretation should not be applied to your Diaries. The answer is, I assume, that Dies Solis stands for "Sunday," not for "on Sunday," the same principle applying to the names of the other days of the week. As, therefore, a *C & D.* Diary is also a calendar, it would be somewhat of a solecism to use "Die" for "Dies." The latter word states simply that the day indicated is that day.

Fates of Historic Houses

When reading, during the Christmas recess, a book of essays on the work of the National Trust during its first half-century (1895-1945), I was impressed by the contrast between the fates of two houses inhabited by two presidents of the Royal Society, one in Lincolnshire and the other in London. Woolsthorpe Manor near Grantham, the birthplace of Sir Isaac Newton, was built about 1622—twenty years before the scientist was born. It is a manor house in the Cotswold tradition and is well preserved, even the famous apple orchard being cared for. In that house, seeking refuge from the plague raging at Cambridge in 1665 and 1666, Newton formulated the differential calculus, the structure of light, and the law of gravitation; there he acquired, it is said, a habit of "absolute concentration." Quite different has been the fate of the house in Soho Square, London, W.1, inhabited by Sir Joseph Banks, president of the Royal Society from 1778 to 1820—a longer presidency than Newton's. During the nineteen-thirties this mansion was demolished without, as far as I am aware, the preservation of any of its characteristic features. The Soane Museum, in Lincoln's Inn Fields, proves the possibility of retaining such buildings; and even when the erection of modern premises on valuable sites is imperative, it should be possible to incorporate some old halls or rooms of historic interest. Banks's house was not only the meeting place of many well-known scientists but, after his death, the residence of Sir John Smith, a founder of the Linnean Society.

Xrayser

PERSONALITIES

Mr. Richard Wright retired on December 31, 1948, from his partnership in S. Figgis & Co., general produce brokers, 47 Fenchurch Street, London, E.C.3. He had been associated with the business for fifty-five years.

Mr. William A. Rees, works manager of C. E. Fulford, Ltd., manufacturing chemists, Carlton Hill, Leeds, is retiring on January 6, after forty-five years' service with the firm. Presentations have been made to him by Colonel W. F. Jackson (managing director) on behalf of the directors, and by Mr. S. W. Fitzgerald (senior chemist) on behalf of the staff.

Dr. H. E. Heitz (chairman, Allied Laboratories, Ltd.) received a knife wound under the heart during an attack by persons who forced an entry into the house of a friend with whom he was dining on January 1. The injury was not serious enough to necessitate his detention in hospital, though the shock was severe. Dr. Heitz expects to engage in full normal activities in the course of a few days.

Mr. T. F. Macrae, O.B.E., D.Sc., who has been appointed an executive director of Glaxo Laboratories, Ltd. (see p. 36), has been in charge of research work at the company's Greenford laboratories since joining the company in 1946. Dr. Macrae was formerly a member of the senior staff of the Lister Institute, and he is a recognised authority on nutritional science. He was appointed Adviser on Nutrition to the Royal Air Force during the 1939-45 war, and still serves as Civilian Consultant.

Dr. Magnus Pyke, who has been appointed to the research staff of the Distillers Company, Ltd., as deputy manager of the company's new Yeast Research Outstation at Glenochil, Clackmannanshire, has been Principal Scientific Officer responsible for nutrition in the Ministry of Food since 1946. Before the 1939-45 war he was for seven years chief chemist of Vitamins, Ltd., Hammersmith, London. In 1948 he was elected chairman of the nutrition panel (food group) of the Society of Chemical Industry.

Mr. A. Norman Harris, M.P.S., J.P., has resigned from the service of Lennon, Ltd., after completing thirty years as manager of the company's manufacturing laboratories at Port Elizabeth, South Africa, and a total of thirty-eight years' service with the company. For the past ten yea Mr. Harris has been chairman of th board of governors of the Provincial an other Government Hospitals in Port Eliz beth. He was for some years mayor of th municipality of Walmer. His prese address is St. Ives, Walmer, Port Elizabet South Africa. Mr. Harris qualified in 190

Mr. Arthur Sugden, who has retir from the position of secretary and leg adviser to Boots Pure Drug Co., Ltd., after twenty-five years' continuous service in that capacity (see *C. & D.*, January 1, p. 4), is a leading authority on chemical patent law. Mr. Sugden helped in the draft- of the company side of the Pharmacy and Poisons Act, 1933, and during the 1939-4 war collaborated with the Government an investigation of German patents th resulted in permission being given to man facture in Britain drugs previously prot ted by German trade-marks. Mr. Sugd is a member of the Statutory Committ of the Pharmaceutical Society, and is se retary, Company Chemists' Association.

New Year Honours.—Included in t New Year Honours list published on D cember 31, 1948, were the following: *Baron:* Sir John Boyd Orr, D.S.C lately Director-General of the Food a Agriculture Organisation of the Unit Nations. *Privy Councillor:* Dr. Ed Summerskill, M.P., Parliamentary Sec tary to the Ministry of Food. *Knig Bachelor:* Messrs. W. G. Ogg, Ph.J director, Rothamsted Experimental S tion, and J. L. Simonsen, D.Sc., F.R. director of research, Colonial Produ Research Council. *K.C.V.O.:* Sir W liam Gilliatt, C.V.O. *G.B.E.:* Sir (W liam) Wilson Jameson, K.C.B., ch medical officer, Ministry of Heal *C.B.E.:* Professor F. H. Newman (a me ber of the board of examiners of the Ph maceutical Society), and Mr. J. Stewa chairman, Retail Trade Wages Coun *O.B.E.:* Mr. T. Bell, principal, Departm of Health for Scotland.

Dr. F. H. Carr, who, with Mr. R. R. nnett, retired from the board of The itish Drug Houses, Ltd., on December , 1948, was chairman of the company m October 1943 until June 1948. He ined the company as scientific director in 20. After receiving his chemical train- g at Finsbury technical college under ofessor Meldola, Dr. Carr was selected 1894 as first Research Fellow of the lters' Company and for five years worked th Professor (later Sir) Wyndham Dun- n in the research laboratories of the armaceutical Society on the aconite alka- ds and related substances. In 1899 he ned the Wellcome Research Laboratories d in 1914 was appointed a director of ots Pure Drug Co., Ltd., Nottingham. became a Fellow of the Institute of emistry in 1899, and received the norary degree of Doctor of Science, Uni- rsity of Manchester, in 1929. In recog- ion of his services during the 1914-18 r he was created C.B.E. Dr. Carr has ved as president of the Society of Che- cal Industry, chairman and president of Association of British Chemical Manu- turers, and vice-president of the Insti- e of Chemistry and of the Society of blic Analysts. He has contributed many ginal papers to scientific journals, and name is associated with the discovery the now widely used Carr-Price anti- ny trichloride test for vitamin A. Mr. R. Bennett joined the staff of the com- ny in the early part of 1914 and became irector in 1919. For ten years previously had been chief pharmacist and lecturer pharmacy and materia medica at Uni- sity College Hospital, serving from 11-14 as an examiner for the Pharma- tical Society. While at University Col- e Hospital he obtained his B.Sc.(Lond.) gree and qualified F.I.C. He was called the Bar at Gray's Inn. Mr. Bennett is of the most highly respected members the British Pharmaceutical Conference, ich he served as secretary, 1914-25, and asurer, 1925-27. He was chairman at Cheltenham meeting in 1928 and at Dublin meeting in 1929. Appointed in 8 to the first Pharmacopœia Commis- n, he continued a member of that body il September 1948, and recently ad- ssed members of the Pharmaceutical iety on the pharmaceutical preparations the B.P., 1948. Mr. Bennett is the hor of "Medical and Pharmaceutical in" and, with Mr. T. T. Cocking, of he Science and Practice of Pharmacy," published 1933. During a recent conference in London of representatives of the company, presentations were made to Dr. Carr and Mr. Bennett by the staff.

Mr. Victor Blagden, who completed sixty-four years of active business in the City of London at the end of 1948, has retired from the chairmanship of Victor Blagden & Co., Ltd., chemical merchants, Friars House, New Broad Street, London, E.C.2, and of the Pitch Marketing Co., Ltd. He was also a director of Burt, Boulton & Haywood, Ltd. Mr. Blagden, who was born in 1867, and educated at Dulwich College and abroad, joined his father (the late Mr. W. G. Blagden) in business in 1884. He became chairman of his company in 1921, when it was converted into a private limited company. For many years Mr. Blagden has been the leader of the chemical merchanting trade in this country, and for the past twenty-five years has been, first, chairman and then president of the British Chemical and Dyestuffs Traders' Association. In 1944, to mark the completion of twenty-one years as their leader, the members of the Association presented him with his portrait in oils (*C. & D.*, 1944.I.579).

Dr. Sydney Smith, who recently retired from his position as director of the Wellcome Chemical Research Laboratories, will, as consultant, retain a connection with the Wellcome Foundation, Ltd. Dr. Smith joined the staff of the Wellcome Chemical Works at Dartford in 1914, and served for many years as head of the experimental laboratories, in which he initiated and developed many important technical processes. In pure research he became well known for his discovery of digoxin. Dr. Smith became works manager of the company in 1936 and in the following year was appointed a director. In 1941 he left the works to establish the new Wellcome Chemical Research Laboratories at Beckenham. There, after setting up temporary laboratories, he was responsible for the planning and development of laboratories opened in 1946.

TRADE NOTES

Dry-sealed Eggs.—Sozol (1924), Ltd., 2 Copthall Buildings, London, E.C.2, are manufacturers of a preparation for preserving eggs by a dry-sealing process.

Prices Reduced.—The British Drug Houses, Ltd., Graham Street, City Road, London, N.1, brought into effect on January 1 new reduced prices for the range of B.D.H. Progestin products..

London Showroom.—The range of seals and labels produced by William Sessions, Ltd., Ebor Press, York, may be inspected at the company's London showroom, 31 High Holborn, London, W.C.1.

Reintroduced Size.—Tampax, Ltd., 120 Jermyn Street, London, S.W.1, announce the reintroduction of Tampax 40's, containing four times as many as the smaller package.

Canteen Catering.—A booklet " A New Approach to Production," by H. V. Black, describes the facilities offered by Intel (Caterers), Ltd., 25 Roundwood Road, Willesden, London, N.W.10.

New Products for 1949.—Ciba Laboratories, Ltd., Horsham, Sussex, give details on another page of four new specialities of the company: Vioform, Priscol, Pyribenzamine and Esidrone.

Improved Hair Dressing.—Anzora Perfumery Co., Ltd., 145 Fleet Street, London, E.C.4, have made available a showcard, size 9 x 6½ ins., for Nuzora hair dressing, a gum-free oil-in-water emulsion.

Price of a Proprietary.—The trade price of Neuro-Phosphates, issued by Menley & James, Ltd., 123 Coldharbour Lane, London, S.E.5, is 38s. 7d. per doz., and not as given in a recent announcement.

Volatile Deodorant.—Chemists are invited to send inquiries to John Travis, Ltd., Mitton Street, Stourport-on-Severn, Worcs, about Odaban, a household deodorant disseminated by exposing a wick dipped in the solution.

Display Outer.—Scram Products, Ltd., 5 Dartmouth Park Hill, London, N.W.5, have produced a counter display box holding 1 doz. packets. The new outer is in addition to an existing three-doz. display box.

Bonus Parcels.—Details of bonus parcels of Dr. Janssen's herbal tablets, of which the sole distributors are Harry A. Penney (Distributors), Ltd., Barclays Bank Char bers, Kendal, Westmorland, are given another page.

Waterproof Adhesive Strapping.—A St. Dalmas & Co., Ltd., Leicester, ha introduced Dalmas strapping, a new wate proof plastic adhesive that gives full pr tection against water, dirt, grease, etc. T strapping is skin-coloured and elastic.

New Prices.—Details of new prices f Dimples feeding bottles, operative fro January 1, are given on another page the manufacturers, Macdonald & Son, Lt Hope Mills, Pollard Street, Manchester, Dimples feeders and teats are supplied chemists only.

Still a Priority.—W. H. Carter & C Ltd., The Royal Forest Factory, Colefor Glos, point out that Ribena blackcurra syrup is still regarded by the Ministry Food as a priority for babies, children, pectant and nursing mothers, and spec patients on prescription.

Distribution Change.—On January Dendron Distributors, Ltd., 3 Fleet Stre London, E.C.4, take over the distributi to wholesalers of D.D.D. preparatio Koko and Koko cream-shampoo, Mald pile-ointment, Dennisol for dogs, Alu wave-set, and Nestol.

British Polystyrene. — The announ ment has been made by the managi director of Monsanto Chemicals, Ltd., V toria Street, London, S.W.1, that plans well advanced for the manufacture by company in this country of polystyrene. first, styrene monomer will be import from the United States. Later supplies be obtained from British plants.

Price Changes.—British Chemicals Biologicals, Ltd., 43 Regent Street, Lou borough, announce changes, in operat immediately, in the prices of a num of products in the Genatosan range dermatological creams. The prices creams Nos. 14 and 14a, Genatosan ba Cupragen, Germosan, wintergreen, a menthol-and-wintergreen creams are changed.

Advertising Campaign.—Details of nouncements appearing in medical a nursing journals for Persomnia tabl manufactured by Clinical Products, L Richmond, Surrey, are given on anot page. The distributors in England a Wales, Scotland and Northern Ireland

ɔore Medicinal Products, Ltd., 64 Glou-ter Place, London, W.1, and 1 Queen's rrace, Aberdeen.

Now Tax-free.—Collumina brand alu-nium hydroxide, manufactured by Evans edical Supplies, Ltd., Speke, Liverpool, , is exempt from purchase tax under the rchase Tax (No. 5) Order (see *C. & D.*, 48.II.804). Previous lists of proprie-ies exempted under the Order have ap-ared on December 18 and 25, 1948 (pp. 3 and 819), and January 1 (p. 8).

British Chemicals and their Manufac-ers.—The 1949 edition of the directory, ich is issued by the Association of British emical Manufacturers, 166 Piccadilly, ndon, W.1, has made its appearance, nging up to date the information given ɔut manufacturers of all types of micals—heavy, fine, pure, etc. By a tem of code references the list is kept npact. Lists of the trade marks and de names of members of the Associa-n are included.

Redesigned Package. — For greater s appeal, Wellcome brand toilet lanoline is being issued by the manufacturers, Burroughs Wellcome & Co., 183 Euston Road, London, N.W.1, in redesigned cartoned tubes, in display outers (one supplied with every two doz. tubes ordered). A showcard echoing the "petal-smooth skin" design of the display outer (illustrated) is also available. A new show-d for the company's speciality Mentho-ointment is based on a fresco by chelangelo in the Sistine Chapel, Rome.

Proprietary Articles Trade Association

lterations to Protected List (Part 1).—*Allen & burys, Ltd.*, Products now exempt from hase tax: D.F.P. ampoules, box of six, 48s. , 6s.; box of twelve, 90s. doz., 11s. 3d. D.F.P. drops, ½-oz., 54s. doz., 6s. 9d. T.E.P.P. am-es, box of six, 36s. doz., 4s. 6d.; oral tablets, gm., 25's, 22s. doz., 2s. 9d.; 100's, 72s. doz., 2-mgm., 25's, 40s. doz., 5s.; 100's, 132s. doz., 6d.; 5-mgm., 25's, 84s. doz., 10s. 6d.; 100's, 8d. doz., 34s. 1d.

J. L. Bragg, Ltd., New standard pack, medicinal charcoal, B.P.C., tablets, 100's, 19s. doz., 2s. (exempt).

Eli Lilly & Co., Ltd., Products now exempt from purchase tax: Ephedrine and Merthiolate jelly, 20s. doz., 2s. 6d.; I-Sedrin compound, 1-oz., 24s. doz., 3s.; 16-oz., 21s. 8d. each, 32s. 6d. Merthiolate cream, 14s. doz., 1s. 9d.; jelly, 12s. doz., 1s. 6d.; ointment, 1-oz., 14s. doz., 1s. 9d.; 16-oz., 100s. doz., 12s. 6d.; ophthalmic ointment, 12s. doz., 1s. 6d.; solution, 4-oz., 28s. doz., 3s. 6d.; 16-oz., 72s. doz., 9s.; suppositories (vaginal), 60s. doz., 7s. 6d.; tincture, 4-oz., 32s. doz., 4s.; 16-oz., 84s. doz., 10s. 6d.; 80-oz., 25s. each, 37s. 6d. Metycaine and Merthiolate jelly, 36s. doz., 4s. 6d.; ophthalmic ointment, 14s. doz., 1s. 9d.

Lucozade, Ltd., Increased prices, January 1, Lucozade tonic food beverage, 22s. 9d. doz., 2s. 6d. (exempt).

Pharmaceutical Laboratories Geigy, Ltd., Sedestrol tablets, now subject to purchase tax: 25's, 16s. doz., tax 33⅓ per cent., inclusive retail price, 2s. 6d.; 100's, 48s. doz., tax 33⅓ per cent., i.r.p. 7s. 4d.

Rankin & Co. Rankin's head ointment, now issued in new pack, in one size only, 7s. 3d. doz., tax 33⅓ per cent., i.r.p. 1s.

Deletions from List (Part 1). — *Pharmaceutical Specialities (May & Baker), Ltd.*, M & B 693 products, Planacrine lozenges, Planoform lozenges and ointment, Zephrol cough syrup.

Squire & Sons, Ltd. Ferocal.

Deletions from List (Part 2).—*Halex, Ltd.*, Zote sponges.

Foaminal Laboratories, Ltd., Foaminol soapless shampoo.

Madeleine (Houndsditch), Ltd., Madeleine toilet preparations.

A PHARMACIST'S ANTHOLOGY

Dr. Wall, physician at Oxford, drank tea with us. Johnson had in general a peculiar pleasure in the company of physicians, which was certainly not abated by the conversation of this learned, ingenious, and pleasing gentleman. Johnson said, "It is wonderful how little good Radcliffe's travelling fellowships have done. I know nothing that has been imported by them: yet many additions to our medical knowledge might be got in foreign countries. Inoculation, for instance, has saved more lives than war destroys: and the cures performed by the Peruvian bark are innumerable. But it is vain to send our travelling physicians to France, and Italy, and Germany, for all that is known there is known here: I'd send them out of Christendom: I'd send them among barbarous nations."

—*From "The Life of Dr. Samuel Johnson," by James Boswell.*

DEATHS

Bately. — In an Ipswich hospital recently, Mr. Spencer Robert Bately (a director of Bately & Stratton, Ltd., chemists, Diss, Norfolk). With Mr. J. F. Stratton, M.P.S., Mr. Bately opened a pharmacy at Diss about forty years ago. At one time he took an active part in amateur theatricals in Yarmouth, and played football for Yarmouth Town until he received a knee injury. He was a keen worker for the Conservative Party. In the 1914-18 war, Mr. Bately served with the Royal Army Medical Corps, and for some years he was a special constable at Diss. A member of both town bowling clubs, he was president or vice-president of Diss Cherry Tree Club for a long period.

Crossley. — On December 17, 1948, Mr. Arthur Crossley, M.P.S., 289 London Road, Hazel Grove, Ches, aged sixty-nine. A native of Gorton, Lancs, Mr. Crossley qualified in 1902, and gained experience in various parts of this country and in Italy before opening a business at Shaw Heath, Stockport, in 1908. In 1933 he transferred to Hazel Grove. He was chairman for sixteen years of the local branch of the National Pharmaceutical Union, and was associated with the Stockport Pharmaceutical Committee as member, secretary or chairman for thirty years. From 1927 to 1931 he was a member of the Stockport town council. He was a prominent Freemason, a founder and Past-Master of Cheadle Lodge, a founder of Cheadle Chapter, Past Provincial Grand Warden of the province of Cheshire, and had been treasurer of Cheadle Lodge for twenty-five years. About twelve months ago he went into semi-retirement, owing to ill-health, and a son, Mr. N. Crossley, took over the business. Mr. Crossley is survived by his widow and two sons. At the funeral, on December 21, 1948, Stockport Pharmaceutical Committee was represented by Mr. T. Turner, M.P.S.

Collier.—At his home in Park Lane, Guisborough, Yorks, recently, Mr. Arthur Dickson Collier, M.P.S., aged sixty. A native of Whitby, Mr. Collier had been in business in Guisborough since 1938. He is survived by a widow and two daughters.

Grimwade.—At Frankston, Melbourne, Australia, on January 3, Major-General Harold W. Grimwade, C.B., C.M.G., V.D., chairman of Australian Consolidated Industries, Ltd., and formerly chairman of Drug Houses of Australia, Ltd., and Felton, Grimwade & Duerdins Pty., Ltd Melbourne, aged eighty. Major-Gener Grimwade commanded the artillery of th Australian Corps in the latter part of th 1914-18 war. Son of the late the Ho F. S. Grimwade, M.L.C., he was born c May 18, 1869, and educated at th Church of England Grammar Schoo Melbourne. He served throughout h career in the Australian Artillery, and w among the first to be selected for foreig service on the outbreak of war in 191 He was successively commander of 4 Fie Artillery Brigade, C.R.A., of 3 Australia Division, and G.O.C., R.A., of the Austr lian Corps. His services were four tim mentioned in dispatches, he was made C.M.G. in 1917, a C.B. in 1918, and was awarded the *Croix de Guerre*. H commanded 4 Division of the Australia Commonwealth Forces, 1926-30, and r tired in 1931. He was for many yea Honorary Colonel of the Melbour University Rifles.

WILLS

Mr. James Stephenson, M.P.S., 172 Hart Road, Nottingham, left £8,585 (£7,348 net).

Mr. W. C. Sayers, Ph.C., 40 Clarendon Ri Lewisham, London, S.E.13, left £41,265 (£41, net).

Mr. R. Whittaker, M.P.S., 860 and 1128 M chester Road, Castleton, Rochdale, Lancs, £11,123 (£10,679 net).

Mr. J. E. H. Scott, M.P.S., 37 High Stre Hawick, proprietor of David Kennedy, chem Hawick, Roxburghs, left £25,416.

Mr. F. Kirkby, M.P.S., The Wolds, Hutt Road, and High Street, Sutton-on-Sea, and H Street, Mablethorpe, Lincs, left £15,444 (£12, net).

Miss Cicely Anna Whitehead, The Chu House Hotel, Torver, nr. Coniston, Lancs, f merly of Broadway, Morecambe and Heysham, £20,506 (£18,483 net).

Mr. J. R. Bentley, M.P.S., 85 Kirkgate, Lee left £23,299 (£23,058 net). This he left to son, Mr. John R. Bentley, M.P.S., Greenac Church Lane, Harrogate, Yorks.

Mr. C. H. M. Baxter, Bourne, Lincs, a di tor of Mills (Bourne Waters), Ltd., mineral wa manufacturers, who qualified as a chemist druggist in 1901, left £35,436 (£34,992 net).

Mr. R. R. Piggott, 51 Chatsworth Road, T ley Rise, Sheffield, Yorks, for many years Yo shire representative of Johnson & Johnson (G Britain), Ltd., Slough, Bucks, left £4,048 (£3, net).

Mr. T. O. Arnfield, 18 Parsonage Road, H ton Moor, Stockport, Ches, formerly of Parl gate, Biscovey, Par, Cornwall, formerly j managing director of J. C. Arnfield & Sons, L Stockport, left £10,569 (£10,054 net).

WHOLESALERS' CENSUS OF DISTRIBUTION

RTICULARS of the questions wholelers, wholesale-retailers, merchants, imrters and exporters will be required to swer in connection with the forthcomg Census of Distribution have been ade available this week and below is ven a summary of the main sections. etails of the forms to be completed by tailers are not yet available.

rictly Confidential

The wholesalers' form is prefaced with assurance that the information given ll be treated as strictly confidential d will be seen only by those engaged taking the census. The published relts of the survey will not disclose the siness of any individual undertaking; r will the details of any trader's busiss be passed to other offices or departents of the Government. The returns e to be made for the year ended Dember 31, 1949, but if the firm's buss year ends on some other date the turn may be completed for the business ar ending between April 5, 1949, and pril 6, 1950.

The first two sections on the form ask r particulars of the year of the return d of the name and address of the firm aking the return. Firms are asked to dicate in a general way the sales tery in the United Kingdom which they ver regularly and also to state whether ey have a staff canteen on their prises. Section 3 is devoted to obtaining description of the business for the purse of classifying it according to the ethods by which it is conducted. A mber of categories are enumerated and e trader is asked to indicate which reesents the main part of his business. nongst the categories mentioned are e following: Wholesaler other than ose specified separately (buys outright d sells in the United Kingdom to reilers or other wholesalers for resale or manufacturers, trade users and institions); wholesaler-retailer other than ose separately specified (predominantly olesale but conducts a substantial reil business from the same establishment); d merchant selling materials to manucturers for processing. There are parate categories relating to importers d exporters, and agents and brokers. ction 4 asks whether the firm imports ods direct and, if so, what proportion imported for resale.

Particulars of the number of persons working in the business full time and part time, and of the total wages and salaries paid to them are demanded by Sections 5 and 6. Section 7 refers to delivery expenses and asks for the total expenditure incurred during the year in operating the firm's own vehicles and the amount paid to contractors for carriage. Particulars of sales and purchases are asked for in Section 8. The form distinguishes between sales and purchases of goods on the firm's own account and sales of goods on commission. In each case total figures for the year are asked for and instructions are given as to the methods of calculating the amounts. There is a separate space for particulars of receipts from services such as warehousing and storage. In Section 9 firms are asked to state the total of their own stocks of materials on hand for sale or processing at cost or market value, whichever is the lower (or the value adopted for balance-sheet purposes), at the beginning of the year and at the end of the year. Section 10 asks the amount of purchase tax payable directly by the firm to H.M. Customs and Excise in respect of sales during the year. Section 11 inquires how many persons are working exclusively on production during the week ended June 25, 1949.

Customer Differentiation

Firms are asked in Section 12 to differentiate between total sales to different classes of customers. In the case of sales to buyers in the United Kingdom they are classified as follows: (1) to retailers for resale; (2) direct to the public (including employees); (3) to industrial, commercial, trade and institutional users; (4) to wholesalers and merchants whether for sale in this country or for export; and (5) invoiced to the Crown Agents and purchasing houses in this country of individual firms and Governments abroad. In the case of the sales to buyers abroad the firm is asked to differentiate between goods exported or re-exported from the United Kingdom and those shipped direct from one country abroad to another.

The purpose of Section 13 is to ascertain the firm's type of business according to the goods in which it deals and a distinction is made between sales in the United Kingdom and for export. The Section enumerates 75 classes of

goods and materials and the firm completing the form is asked to indicate the four groups amongst those listed which account for the largest share of the value of its trade in the home market. The groups should be listed in order of importance by giving an estimate of the percentage of the total represented by each group. The firm is asked to insert an X in the appropriate square against each group of commodities in which it deals and to indicate whether it sells a general range or specialises.

It is pointed out that a subsidiary com pany is regarded as a separate under taking and should make a separate re turn except where the written agreemen of the Board of Trade has been obtaine to make a combined return. If the busi ness includes branches or separate depot or offices operating from different estab lishments a separate return should b made for each branch and depot unless thi is impossible owing to the centralise system of accounting adopted by th firm.

COLOUR REACTION FOR VITAMIN A

By Ray A. Carreyett

THE substance under examination is dissolved in chloroform, and the solution well dried by shaking with anhydrous sodium sulphate for half an hour and filtered. The clear filtrate is taken for test. To it are added an equal volume of concentrated hydrochloric acid and a few drops of freshly made 10 per cent. ferric chloride solution. The mixture is well shaken and allowed to stand. On separating, the lower layer of chloroform is coloured blue or a violet blue tinge develops, depending on the concentration of vitamin A or carotene present in the original solution.

Discussion and Notes

The procedure is similar to that in Obermeyer's test for indican. Vitamin A, carotene, and cholesterol were being estimated in the livers of animals that had undergone treatment with freshly isolated hormone fractions from the whole pituitary gland. The determinations were performed using the Carr-Price and Liebermann-Burchard reactions respectively.

The liver samples had been hydrolysed with 30 per cent. aqueous potassium hydroxide solution and had been left standing a few days by which time decomposition had begun. The Obermeyer reaction was performed on chloroform extracts of the saponified liver samples, and positive results were obtained, an intense blue colour being formed in the lower chloroform layers. As a check, comparative reactions were carried out on samples of pure vitamin A and carotene concentrates, and again an intense blue colour developed, indicating that the original reaction for indican was yielding a pronounced result with vitamin A.

It is well known that other oxidising agents (e.g., potassium chlorate) are used in place of ferric chloride in the Ober meyer (or modified Jaffe) reaction. Thes other substances when used failed to yiel the blue colour observed in the vitamin and ferric chloride tests. It was furthe found that, wherever the Carr-Price rea tion gave a blue colour, so did the ferri chloride test.

It is noteworthy also that, if concentra ted sulphuric acid is added to caroten solution in chloroform, an intense blue co our develops. The test was applied to e tracts of the liver samples and positiv reactions obtained.

At times, trouble develops over the e timation of cholesterol, owing to fugitiv colour changes on adding the final 1 : 1 mixture of acetic anhydride and sulphuri acid. The colour that rapidly develo is blue, but, on standing in the dark fo ten minutes to allow for maximum deve opment, it gradually changes over to th characteristic cholesterol green. The Li bermann test (essentially for cholestero was applied to standard vitamin A solu tions in chloroform, and gave intense fug tive blue colour.

To ascertain whether any outside sub stances were responsible for the blue co our in the ferric chloride test, sampl of mixed carotenes and carotenoids we prepared from carrots. Separation w performed on a chromatographic colum of activated alumina, commencing wi a petroleum ether extract, subsequent elutriated with benzene, chloroform an finally methyl alcohol. The various so vents were removed from the extracts b evaporation, and the residues taken up chloroform and left over anhydrous so ium sulphate. Aliquot portions of the solutions were removed for test. All tes performed upon the samples yielded th same results as previously obtained fro

ıe liver samples and standard vitamin solution. (The Liebermann reaction was ıtense from the carrot samples. In the ab-ıce of cholesterol, therefore, a blue col-ration is produced from vitamin A and ırotene).

It is already known that carotene yields eronic acid under ozonolysis and vitamin *in vivo*, and that, in the presence of ydrochloric acid, vitamin A is trans-ırmed into cyclic derivatives. The yclised vitamin A is termed anhydro-vita-in A. Spectro-absorption analysis has ınfirmed the transformation. It is sug-ɜsted, in the light of the above know-dge, that the blue colour formed from ıe HCl : $FeCl_3$ test is due to the forma-on of anhydro-vitamin A, because, on ıe addition of water, the blue colour in ıe chloroform layer vanishes immediately, aving a yellow-to-orange solution char-ɜteristic of carotene solutions.

4 to 20 mgm. of indican are normally ɜcreted per day in the urine. The nount is variable, depending on the diet. athologically, the greatest increases are ınd in stagnation of intestinal contents ıd disorders involving increased putrefac-on. Bacterial decomposition of body pro-in, as in gas-gangrene, also gives rise to creases of indican. It appears that vita-in-A excretion in the urine is increased in pneumonia and chronic nephritis. It would be of value to examine critically the urine of horses or cows, using the Carr-Price reaction to determine the amount of vitamin A present, and then to see how much indican is present by an alternative method to the Obermeyer (or Jaffe) technique; also to observe the Jaffe reaction when applied to the urine. Observations on these investigations would indicate the validity of the interpretation of the reactions towards vitamin A and indican.

A wide range of sterols and related compounds (ergosterol, coprosterol, androsterol, dehydrocholesterol, cholesterol, as well as urea, hippuric acid, uric acid and vitamin C) were subjected to the Obermeyer test, all with negative results.

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PHARMACEUTICAL SOCIETY OF NORTHERN IRELAND

ır. Henry H. Cowzer (president) was the chair at the December meeting of ıe Council of the Pharmaceutical Society Northern Ireland. Also present were essrs. P. R. W. Shinner (vice-president), . F. Moore (treasurer), C. Abernethy, . P. Crossin, W. P. Ewart, H. W. Gam-e, J. McDowell, J. McGregor, Walter C. ate and Professor E. B. C. Mayrs. The cretary (Mr. William Gorman) was also esent. Apologies were received from essrs. F. R. Moore, J.P., S. E. Campbell ıd W. H. Boyd.

A quotation for the supply of gilt medals place of the gold medals awarded at ıe Society's examinations was considered ıd on the motion of Messrs. McGregor ıd Gamble it was decided to purchase the quired number. It was agreed on the otion of Messrs. Abernethy and Crossin at consideration of the agreement in ex-ence between the Society and insurance mpanies should be referred to the Law ommittee.

On the proposal of Messrs. Moore and Gamble it was decided to remove from the register the names of members who had not paid their retention fees.

The President stated that Mr. J. E. Driver, M.A., M.Sc. Ph.D., F.R.I.C., had obtained an appointment overseas and would be unable to carry out the duties of examiner in chemistry to the Society after the end of 1948. It was decided to send a letter of congratulation to Dr. Driver.

The following programme of lectures was announced:—

January 12: Dr. E. W. Tapley (May & Baker, Ltd.) on "Short-acting Anæsthetics."

February 9: Mr. T. Marsh (Glaxo Laboratories, Ltd.) on "Production Control and the Use of Liver Extracts."

March 9: Dr. G. Brownlee (Wellcome Foundation, Ltd.) on "Antibiotics Today."

March 23: Dr. G. R. Boyes (Allen & Hanburys, Ltd.) on "Medicines from Munitions."

FORMULATION OF MEDICAMENTS

Lecture given by Mr. A. G. Fishburn, Ph.C., F.R.I.C., to the Dundee and East and Central Scottish Branch of the Pharmaceutical Society

ALTHOUGH the formulation of pharmaceutical preparations is a subject which offers considerable scope for research, both academic and applied, only recently have there been signs of a change from an empirical to a scientific approach. While chemistry, physics and biology have for some time played major roles in the study of disease and in the invention of new drugs, only now is their aid beginning to be systematically invoked by the pharmacist in converting such discoveries into products that are safe, convenient, and effective in use.

Primitive work on formulation aimed no higher than developing something that was convenient to manipulate and acceptable to the patient. The materials used, like the drugs themselves, were usually of animal or vegetable origin, selected empirically and known from previous experience to be fairly innocuous. Later, the principles of purification and quality control (and, later still, the possibility of chemical or biological standardisation) were recognised as an important part of the processing of natural drugs. Much of the work, however, passed out of the pharmacists' hands and became part of medical and biological research while pharmacy was limited to devising "elegant" products using traditional materials and technique.

Factory Takes Over

The gradual transfer of pharmaceutical operations from the individual pharmacy to the factory resulted in a certain degree of mechanisation and an improvement in quality control, but the manufacturer still aimed chiefly at imitating in principle what had previously been made by extemporaneous dispensing. So long as the drugs themselves did not diverge appreciably from well recognised types and were required for administration in a manner familiar to the pharmacist, the manufacturers were fairly successful. Recent advances in surgery, and in human and veterinary medicines, however, and the introduction of new drugs such as the antibiotics, have indirectly revealed serious gaps in pharmaceutical knowledge. Many new products exhibit properties which, from the pharmacist's viewpoint, are quite unlike those of earlier drugs, or are required to be presented in entirely new forms. Penicillin, for example, faced the pharmacist with the problem of converting a heat-sensitive product, unstable in aqueous solution, into a stable, sterile, "slow-release" formulation in multidose form. There was available virtually no background of scientific knowledge to help in the solution of the problem, and even now methods used are largely empirical.

New Materials

The scientific approach to pharmacy is, nevertheless, now taking definite shape. First, there is distinct progress in the standardisation of formulated products, both by introduction of materials of known constitution to replace the more variable natural products and by the devising of tests to control factors that have previously been disregarded. An example of a new material is emulsifying wax of the British Pharmacopœia, 1948. Historically, the use of solubilised long-chain compounds began with soap, which for a long time remained the only detergent and emulsifying agent of its type. Later, complete or partial solubilisation of vegetable, animal and mineral oils by sulphonation and other processes was introduced and many useful auxiliary agents became available in industry. Such compounds are of interest to pharmacists since they present a combination of physical and chemical properties that makes them suitable for ointment and cream bases. A physico-chemical study has thrown more light on the principles of emulsification and emulsifying wax is a stable, controlled product free from tendencies to oxidation and rancidity and easily manipulated by the pharmacist.

A separate approach to solubilised long chain compounds has been by condensation of ethylene oxide to give products such as the polyethylene glycols, which are extremely stable (being non-ionic), bland to the skin, miscible with water, and excellent solvents. By varying the molecular weight (i.e., the number of molecules condensed) a range of products varying from viscous liquids to hard wax-like solids can be obtained. By adjusting the proportions of each product in a mixture it is possible to prepare liquids, pastes, and solids of any required viscosity or melting point. An example of their use is in the preparation of milk-soluble penicillin bougies for the treatment of bovine mastitis. Other synthe-

c products are being used to replace gums which are notorious for their inconsistent ehaviour). Solubilisation of cellulose has ielded products of known constitution and niform physical properties, which, on solu- on in water, form translucent gels rather ke mucilage of tragacanth.

A second advance in drug formulation is ne devising (with or without the aid of new uxiliary substances) of products which are ssentially new either in their physical na- ure or in the function they are designed to erform. A survey of the chief routes of dministering drugs shows numerous defici- ncies in the pharmacist's armamentarium. Ie has difficulty in dealing with such pro- lems as the thermolabile, water-unstable ompound required in injectable form, or ne water-insoluble drug required intraven- usly, since he has neither the materials nor ne technique for such formulations. In ormulating penicillin for "slow-release" or depot-dose" injection, some success was chieved by the Romansky method of dis- ersing penicillin in vegetable oil in the pre- ence of finely-divided beeswax. Beeswax has now been supplanted, at least in U.S.A., by aluminium stearate, which gels the oil and prevents deposition of penicillin, thus de- laying to a remarkable degree absorption of penicillin, particularly when it is present as the relatively insoluble procaine salt. It should be emphasised that the new formula- tion may require as much preliminary ex- perimental work as had to be carried out on the drug itself.

Interesting results have been obtained by the use of surface-active agents in various types of formulation. In tablets, for ex- ample, wetting agents can induce rapid dis- integration and in ointments there is evi- dence that they assist penetration of the active agent to combat skin infections. Other uses include the preparation of con- centrated solutions which, as a result of the inclusion of a dispersing agent, yield finely divided globules or particles on dilution with water. More recently still, prepara- tions containing an antiseptic combined with a surface-active agent have been found to have much greater activity than a simple solution of antiseptic.

BIRDSGROVE HOUSE IN 1948

Reporting on the year's activitities at irdsgrove House (the Pharmaceutical ociety's convalescent home) the Warden Miss M. C. Jones) states that during the ear 161 guests were accommodated. The najority came from London, Yorkshire, ancashire and Cheshire, but a few came rom further afield (Scotland, Cornwall). During the year several gifts have been nade to the house. They include £100 rom Liverpool Branch towards buying ables for the dining-room, brick fire- laces for dining-room and lounge from Manchester Branch (in memory of the late Mr. J. H. Franklin), twenty-four wheel- ack chairs from the Birkenhead Branch which has also adopted the bedroom alled "The Wirral," and hopes gradually o refurnish and re-equip the room), gifts rom other branches, and from guests.

Many Improvements

The garden has not been forgotten; azaleas, eanothus, flowering cherry, mountain ash chosen by a Welshman), bulbs and lowering plants have been received. The ouse itself has undergone many changes. There are now washbowls in every bed- oom, and the large bathroom has been livided into two. Facilities have been pro- vided in "The Wash" for lady visitors to do their own laundering, and the dining- room has been transformed. The Warden thanks all who have in any way contri- buted to the comfort and well-being of guests during the year, mentioning especially the National Association of Women Pharmacists, by which the house has been kept supplied with magazines and periodicals, and continues "It has been a year of happiness created by the guests in their desire to be friendly and in their eagerness to welcome each new- comer as they in turn were welcomed by other guests. We have had days when the whole party has gathered in the hall preparatory to a day's outing, perhaps to Dovedale. The more stalwart have gone on foot, while a guest's car has accom- modated the remainder, both parties meet- ing for tea. On other days we have walked over the Weaver Hills, or through the Manifold valley. We have had ad- ventures in hitch-hiking, and once got lost on Ilan tops, but it has all been fun. Soon there will be snowdrops and yellow aconites along the paths—the first flowers of the New Year. They will symbolise aspirations for the year ahead and for all the future of Birdsgrove House. Let none doubt that this friendly house, with its warmth and comfort, will con- tinue to provide friendliness and happi- ness for pharmacists in need of them."

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VOL. CLI JANUARY 8, 1949 No. 3594

Taxation and Lack of Capital

THE ability of businesses to finance their own development has a connection with the incidence of taxation too obvious to need emphasis. Even for a business to maintain its present levels of production may prove an insuperable problem if too much is demanded of companies by the Commissioners of Inland Revenue. Before his next Budget in April the Chancellor of the Exchequer (Sir Stafford Cripps) will no doubt have to consider many conflicting claims to relief, and to weigh most carefully whether an existing tax may not, if continued, cost the country more in hampered production than it provides benefit to the Exchequer.

A memorandum addressed to the Chancellor by the Federation of British Industries under the title "Taxation and Shortage of Industrial Capital," leaves the Chancellor in no doubt as to the strongly-held views of that most important body of industrialists. The memorandum brings before him "the grave and urgent problem arising from the lack of capital needed by industry to replace or modernise fixed assets and to maintain or where possible expand current production." In this shortage the primary and major cause is rightly held to be the rise that has taken place in costs (prices in general have risen to more than 200 per cent. of the pre-war level). When that factor has operated in the past, however, it has been possible to provide increased capital by substantial additions to reserve out of enhanced profits. Today, under high corporate taxation and the method of its operation, that route is closed.

The memorandum lays down two urgent requirements. The first is to ensure, so far as possible, that taxation is levied on profits only after proper provision has been made for maintenance and replacement of raw materials, buildings, plant and machinery (wear-and-tear allowances based on the original cost obviously do not meet the situation). The second is to adjust the incidence of tax so that industry may provide additional working capital from its own resources, a provision made difficult by the present system of taxing profits of corporate bodies — particularly undistributed profits—over and above the ordinary rates of income tax. The memorandum acknowledges the difficulty of devising a scheme that introduces any fundamental change in the defintion and computation of profits "without very thorough and complete examination of the implications of such a step throughout the range of industry," but urges that an official inquiry should be set on foot (e.g., by a departmental committee) to examine how far it is practicable to adopt, as a basis for calculating profits, one that takes account of marked changes in the value of money upwards or downwards. In the setting-up of such a committee of inquiry the Federation offers its assistance.

In the meantime, and in order to influence the position in the 1949 Budget, the following measures are recommended:—

(a) To facilitate replacement of fixed assets a special fixed allowance in arriving at profits (based, for example, on the whole depreciation allowance granted for 1945-46, suitably adjusted). The allowance would be outside the wear-and-tear calculations and would not be deducted from the written-down value.

(b) To provide working capital for replacement of stocks, etc., a substantial reduction in taxation on profits withheld from distribution with that defined object, and subject to the condition that, should profits so withheld be withdrawn and distributed, the tax relief would have to be surrendered.

Loans to Small Companies

THE Industrial and Commercial Finance Corporation has now completed its third year. The Corporation, registered as a limited company in 1945 (see *C. & D.*, 1945.I.553), with a capital of £25 millions, includes among its objects to procure finance for new or old-established manufacturing commercial or trading businesses; to lend money or give credit "with or without security"; and to advise on and aid in the formulation of schemes for financing such businesses. Membership of the company is limited to the Bank of England, insurance companies established and having their head offices in the United Kingdom, and investment trust companies. Lord Piercy (the chairman) in his review of the twelve months ended June 30, 1948, states that confirmed advances and investments increased by about £3,000,000 to £13,500,000, and cash invested in loans and shares by about £5,000,000 to £10,750,000. Of this approved business, £1,271,700 was for the chemical industry, or 8.6 per cent. of the total advances and investments of the corporation. The net increase would have been larger had it not been for heavy withdrawals amounting to over £2 millions of approved, and, in most instances confirmed, business owing to changes in investment plans and unforeseen changes of circumstances. Losses sustained during the year (amounting to £113,249) were fully offset by income, aided by certain tax repayments.

The corporation was set up to take risks in order to help small and medium-sized businesses which, now that the private investor no longer plays an important part in this field, often experience difficulties in obtaining their capital requirements. Conditions in industry and trade during the year under review, Lord Piercy continues, were somewhat uneasy. One in every six customers had experienced setbacks or difficulties; over the group as a whole, nevertheless, sales and, to a lesser extent, profits also, increased. These trading conditions were reflected from time to time in the stock markets and the new issue market. The corporation has been most willing to provide capital and long-term credit, but has practised careful selection.

Antrycide

WE give on p. 51 such information as we have been able to gather about a new trypanocidal compound developed and manufactured by Imperial Chemical Industries, Ltd. The details, given at a Press conference arranged jointly by the company and the Colonial Office, are scanty (pending further releases to be made, we understand, in the technical Press in the near future). It is altogether possible that, in a conference of the kind in question, with speakers from both sides—not all of whom have the right scientific background—larger claims are made than are warranted by the facts. It is possible also that the facts themselves are misinterpreted. The result has been on this occasion a considerable volume of Press publicity of a kind more optimistic than critical.

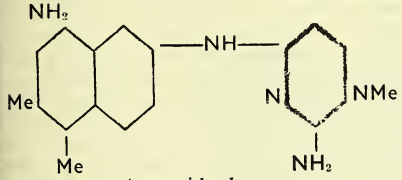
Statements that "four and a half million square miles of Africa, hitherto precarious to man and beast because of sleeping sickness, will be rendered safe for cattle rearing," that the drug has "no" toxic effects and produces "no" undesirable reactions in the animal, "either locally or generally," have to be accepted with the reserve that comes from the memory of similar hopes of past years disappointed or diminished by unexpected obstacles such as the development of resistance.

The published facts about Antrycide are promising enough to be worthy of a better fate. Certain forms of trypanosomiasis in cattle, camels and other animals in East Africa have been brought under control in tests lasting some months. A halt could well have been called after allowing that knowledge to be disseminated among sections of the public having specialised knowledge leaving the rest until time, further studies and examinations for untoward reaction had established other essential knowledge such as the duration of immunity. There would then be neither the risk of disillusionment among the general public (who must almost have conjured up visions of extra beef roasting in the oven), nor the need for what is apparently, from a Press agency report, a partial repudiation by one of the discoverers of the new compound (see p. 51) of some of the newspaper claims prematurely made for it.

A CATTLE TRYPANOCIDE

A Preliminary Announcement of a New Chemotherapeutic Substance

RELIMINARY announcement of the iscovery of a drug for the treatment of ypanosomasis in cattle was made at a ress conference held jointly by the Colnial Office and Imperial Chemical ndustries, Ltd., in London, on December 9. The drug, Antrycide, which has been aborated by an I.C.I. team that inuded Dr. D. G. Davey and the late r. F. H. S. Curd (discoverers of Palurine) and others, is 4-amino-6-(2′-amino-′-methyl pyrimidyl-4′-amino) quinaldine :1′-dimethosulphate, a white crystalline ıbstance soluble in water. It was deeloped in the company's laboratories nder the serial number M. 7555, during search extending over four years. The ase has the following formula, though ıe preparation may be issued finally in vo forms.



Antrycide base

Full technical details are to be published ter but it was revealed at the conference ıat trials conducted with the help of ıe Colonial Veterinary Service in East frica and the Sudan had shown that ıe treatment (using "one or two ams" of Antrycide) would cure ıttle of infections of *Trypanosoma ongolense* and *vivax* (the two worst rms of the disease). Several hundred ıimals were used in the trials. The rug had also been used with success gainst *T. brucei* infection in cattle and orses, *T. evansi* in camels, and *T. simiæ* pigs, while experiments still proceeding dicated that the drug would immunise ıttle. Protection against *T. congolense* ıd been secured for six months usually, ıt sometimes the disease "broke ırough" earlier. Experiments (to be conuded in May 1949) indicated that recurnt infections might be expected to reond to a second treatment. Cattle procted against *T. vivax* had usually mained immune for four to five months, ıt earlier "breaks through" were being udied.

Administration was by subcutaneous injection, and did not require the services of a veterinary surgeon. No toxic effects, or undesirable reactions had been observed in the trials.

Supplies are to be confined at first to the veterinary departments of the Governments of Kenya, Uganda, and the Sudan. Next in priority come field trials in West Africa. The drug has not been tested against human sleeping sickness.

Mass production of the drug is proceeding, and within the next twelve months enough will be manufactured to protect at least two million cattle.

MR. REES-WILLIAMS, M.P., Under-secretary of State for the Colonies said, from the chair, that the successful use of the new drug would play a significant part in rendering 4½ million square miles of Africa (an area seventy-five times that of England and Wales) safe for cattle rearing. In that country at present the tsetse fly was "practically the ruler."

The plan for animal breeding in the area was to go ahead immediately, and "substantial results" would be apparent within three or four years. Immunisation with Antrycide was to be used in conjunction with insecticidal methods of destroying the tsetse fly—methods which were only about 90 per cent. effective.

Another speaker said that during the development of the area new cattle diseases might be found, against which other protective measures would have to be sought.

Cautious Views

Commenting in Nairobi, on December 31, 1948, on the significance of the drug, DR. D. G. DAVEY said that it was not yet known whether the third and subsequent doses of Antrycide would continue to give protection, or whether the drug conferred permanent immunity. "To introduce cattle on a large scale into a tsetse area and then keep on protecting them with a fairly expensive drug might not prove practicable."

In the Bag. — A C.I.D. man says he thinks a solution to these prevailing thefts of phenobarbitone [from doctors' bags] and what-not might be to make it an offence to allow such drugs to be stolen.—"News Chronicle."

PHARMACY IN SOUTH AFRICA

PHARMACY in South Africa is controlled by the South African Pharmacy Board and the Pharmaceutical Society of South Africa. The Society has thirteen branches, as follows:

Cape Midlands
Cape Western Province.
Eastern Districts.
Natal Coastal.
Northern Cape.
Northern Transvaal.
O.F.S. and Bloemfontein.
Pietermaritzburg and Northern Natal.
Pretoria.
Eastern Transvaal.
South West Africa.
Southern Transvaal.
Cape South Western Province.

According to their size, the branches nominate from one to twelve General Council Members of the Society, who in turn elect an Executive of ten members. The Society represents all chemists in their business, whether they be employers or employees, retail or wholesale. The Society's president is Mr. D. A. Jacobson. The secretary (Mr. Aaron Kramer) gives his services voluntarily and devotes a considerable amount of time to the "South African Pharmaceutical Journal," which is sent to every chemist in the Union, whether or not he is a member of the Pharmaceutical Society (there are approximately 1,950 qualified chemists in South Africa, of whom approximately 1,450 are members). The fee for membership is £1 11s. 6d. per annum; subscriptions to the local Societies bring the basic average payment per member to approximately £3 3s. per annum.

Functions of Pharmacy Board

The Pharmacy Board is a statutory body appointed under the Medical, Dental and Pharmacy Act. Its purpose is to administer the Act, and it thus occupies a position analogous to that of the Pharmaceutical Society of Great Britain. Six of its ten members are elected by chemists and druggists throughout the country; the remaining four (three of whom must be pharmacists) are nominees of the Government.

The vast majority of prescriptions dispensed in South Africa are private, but there are some other sources (mostly from Benefit Societies). The proportion of private to other dispensing varies according to the district, but it is a fair generalisation that, throughout the Union, at least 60 per cent. is private, even if, in some districts, it is over 90 per cent. Prices obtained for dispensing are good. An average price for an 8 oz. mixture at present is 4s. 6d.; it may soon advance to 4s. 9d. Dispensing of proprietaries may approximate 60 per cent. of private dispensing. Only in country districts do doctors themselves dispense. A Health Service has been advocated for some time and there are already some free health centres, but it seems unlikely that any united move in this direction will be made for some time, if ever. The view of the secretary of the Society (Mr. Kramer) is that such a service will never be on a basis of direct taxation.

Turnover

To estimate the average turnover throughout the country is difficult, on account of wide variations. Small pharmacies situated in the Dorps (country districts) do not do business amounting to any large total. One expert estimate of the average monthly turnover places it at £600, and the average gross profit throughout the country at approximately 35 per cent. Income tax officials do not accept a lower gross profit percentage than thirty, or a lower net profit percentage than fifteen. There are approximately 1,100 chemists' shops in the Union, a number likely to increase despite the fact that, before a pharmacy may be established in Natal, a licence has to be obtained and local pharmacists may be able to veto the project if there is not a clear need for another pharmacist in the area. It is required that in limited liability companies with retail, wholesale or manufacturing pharmaceutical businesses, the managing director has to be a qualified chemist.

The volume of stock carried throughout the country is probably much larger and more varied than in England, and the number of American products stocked is high. The average wage of a qualified pharmacist in a retail business is £60 per month, but there are possibilities of obtaining a much larger salary, particularly if an optical qualification is also held. African natives are employed in pharmacies for delivery and cleaning purposes only; their wages approximate £3 per week. Rents, which are generally inclusive of rates, are much higher than in England, and it is practically impossible to obtain a lease for more than five years (with an option for another five years). A five-year lease in the Union is considered good. Much of the trade in retail pharmacy is on a credit basis (in the better class shops exceeding 50 per cent. of the turnover).

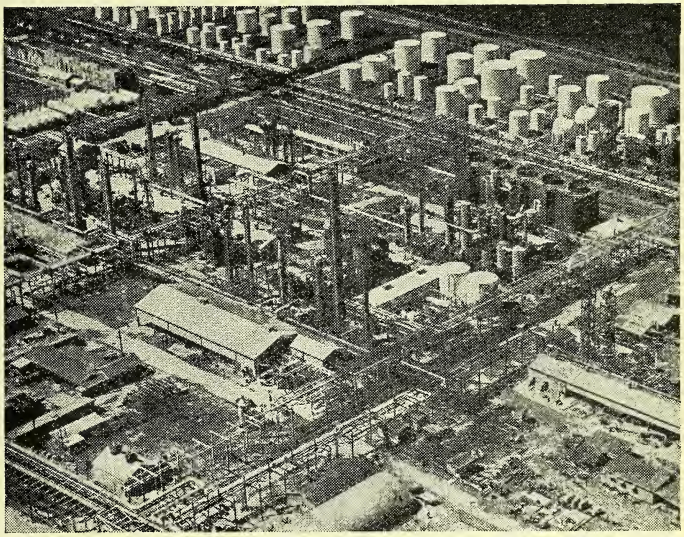
Wholesalers in turn give extended credit to etailers—in some instances up to ninety or ven 150 days. To obtain the services of a harmacist is difficult, mainly because it is o easy for a chemist to go into business or himself, and wholesalers are usually to e found who finance pharmacists propoing either to open or to acquire a business. When a substantial loan is made to a harmacist buying a business, a certain perentage of his purchases is "tied" by the wholesaler. At one time many wholesalers had their own retail businesses, but most of these have now been disposed of. Import restrictions recently imposed by the new South African Government may temporarily retard progress, but on the whole future prospects are excellent. There are apparently no restrictions on pharmacists or unqualified assistants settling in the Union, provided they have a situation to go to and/or are buying a business.

GLYCERIN FROM PETROLEUM

IN a newly-opened $8 millions chemical plant at Houston, Texas, U.S.A., illustrated on this page, the Shell Chemical Corporation is producing glycerin ynthetically for the first time on a ommercial scale. The process involves the se of only three raw materials—petroleum, alt and water—and is the result of some wenty years' work. The plant establishes new industry based on allyl compounds erived from petroleum hydrocarbons. "Cracked" petroeum gas from an djoining refinery, vith chlorine and vater, enters the lant at a point hown at the lower eft of the picture. yntheses and purication processes re carried out in nits near the entre of the photo, nd the pure proluct is stored in anks at the far op-right.

tages in Process

In the first stage, ropylene is rected with chlorine t elevated temeratures to form llyl chloride. The esulting mixture is urified in a series f distillations. The esulting pure allyl chloride is treated with austic soda, chlorine and water, to form rude glycerin, the conversion proceeding nder controlled conditions of *pH*, flow rate, emperature and time. The effluent from he glycerin unit consists of dilute glycerin nd salt. In the next stages (concentraion, desalting and purification of the crude glycerin), the crude solution is pumped to multiple-effect evaporators which contain over a quarter of an acre of heating surface, and a concentrated salt-glycerin slurry is withdrawn and pumped to a settling tank. From this vessel the glycerin solution is withdrawn and further concentrated, desalted and purified. Desalting takes place in a system of evaporators in which the glycerin is distilled under reduced pressure. The final product has purity above 99 per cent. A fleet of rail tankers equipped with tanks of aluminium (which does not cause the glycerin to discolour), has been constructed for transport. For its work in developing the plant, the Shell Development Co. received in 1948 the American award for Chemical Engineering Achievements.



Aerial view of new synthetic glycerin plant at Houston, Texas, U.S.A.

CAROB JUICE

By Herbert S. Grainger, Ph.C.

THE juice of the carob bean, *Ceratonia siliqua,* has been suggested as a possible source of sugars for use in pharmacy. The following notes describe the product offered in this country and its possibilities in pharmaceutical preparations.

Physical Properties

The concentrated juice submitted was of a dark amber-brown colour, and of density 44-45 Baumé (1.44 gm./mil at 20° C.). The viscosity at 20° C. measured by the falling sphere method was 1757 centistokes. The measurement was carried out in a 1 in. diameter boiling tube, using a ¼ in. steel ball falling through a distance of 4 cm. The colour is too dense to allow transmission of light from a 60-watt lamp through a layer 1½ in. thick, and the colour was not removed from a 10 per cent. solution by percolation through active charcoal granules. Dilution in water to a 33 per cent. w/v solution gave a slightly cloudy solution which, on spinning in a hand centrifuge, deposited vegetable debris showing characteristic elements when examined under the microscope.* The supernatant fluid gave a *p*H reading of 6.2 when tested with Johnson's indicator papers. The juice is very sweet, with a distinct flavour of the fruit Its odour is faintly acetic, with a suggestion of caramel. Some observers describe it as being akin in flavour to dates.

Chemical Properties

A 33 per cent. w/v solution was filtered through Whatman No. 1 filter paper.† To 5 c.c. of the filtrate was added a few drops of a 2½ per cent. solution of iron and ammonium citrate and a few crystals of sodium acetate. A purple coloration, but no precipitate, was obtained, indicating the presence of pseudo tannins but no gallic acid or pyran phenols. A match-stick dipped in the solution and dried was then dipped into concentrated hydrochloric acid and warmed. A purple colour was produced, indicating the presence of catechins. A chloroform extract of the concentrated juice, treated with ammonia, failed to indicate any traces of emodins. A personal physiological test failed to indicate any laxative action. A portion of the concentrated juice treated with dilute solution of ammonia and shaken out with ether failed to give evidence of alkaloids when treated with Mayer's reagent. A 33 per cent. solution treated with solution of lead acetate gave a greyish precipitate, but did not remove the colour from the liquid. The precipitate may be due to mucilages in the juice. Tincture of guaiacum gave no blue colour with the solution, either with or without hydrogen peroxide present, indicating absence of oxidase enzymes. A strong positive result was obtained when the juice was treated with alkaline copper tartrate solution. Dilute solution of iodine failed to give a blue colour with a 33 per cent. solution of the juice, indicating absence of starch. Sodium metabilsulphite, 0.2 per cent. greatly reduced, but did not remove the colour, from a 10 per cent. solution. Millon's reagent gave no indication of the presence of protein in the juice, though protein is present in carob seeds.

Syrup of Carob

A syrup approximately equal in specific gravity to syrup, B.P., was made by adding 10 per cent. distilled water to the concentrated juice. The product is referred to as syrup of carob to differentiate it from the concentrated juice. Dilutions of syrup of carob and of syrup, B.P., were made in the following strengths by volume: 75 per cent., 50 per cent., 25 per cent., 10 per cent. A sample of the 10 per cent. carob syrup was left exposed for forty-eight hours, when a mould was seen to be growing on it. The bottle was thoroughly shaken, and a glass rod inserted to break up the mycelium as much as possible. Inocula were then made into the other bottles from the mould-contaminated specimen, and all were incubated at 25° C. for four days. Inspection by transmitted light from a 60-watt bulb gave the following results:—

Strength (%)	Carob Syrup	Syrup, B.P.
100	clear	clear
75	clear	mould
50	mould	mould
25	mould	mould
10	mould	mould

The 75 per cent. carob syrup was re-inoculated from the 10 per cent. sample, and re-incubated for ten days. The product remained clear.

Preparations

The dark colour and characteristic odour and taste limit the fields of application as a direct substitute for sugar; however, a num-

ber of preparations were made and their flavour and appearance compared with similar ones made with orthodox sweetening agents.

Syrup of ginger. A syrup of ginger made by adding strong tincture of ginger to syrup of carob was compared with the official syrup. The flavour of the former was undoubtedly superior to that of the official preparation, the slight flavour of the carob enhancing that of the ginger, and being slightly reminiscent of molasses.

Oxymel of squill. The concentrated carob juice was used in place of honey in the preparation of an "oxymel" of squill. This made a pharmaceutically acceptable preparation, but it was, of course, much darker in colour than the official oxymel. The flavour of the carob did not pervade the product, which seemed sweeter than oxymel scillæ, B.P.

Chlorodyne. A chlorodyne similar to the B.P.C. product was made, using concentrated carob juice to replace the treacle and syrup. The resulting preparation was lighter in colour than the official one but indistinguishable in flavour. On standing, however, a separation became visible after two days into an upper pale brown and somewhat mobile layer and a darker, viscous lower layer. Remixing took place with little difficulty on shaking.

Syrup of codeine. As difficulties had been experienced with mould growths in syrup of codeine, B.P.C., a sample was made using syrup of carob. After storage for twenty days no growth appeared and the odour did not suggest that fermentation had occurred.

Syrup of chloral. It is doubtful if any satisfactory vehicle can be found to mask the taste of chloral, but a syrup of B.P. strength using syrup of carob is slightly superior in flavour to the official product.

Syrup of senna. A syrup containing 25 per cent. liquid extract of senna and 75 per cent. syrup of carob has an excellent aromatic flavour and the bitterness of the senna is completely masked.

Paraldehyde draught. The following formula was found to produce a satisfactory draught:—

℞	Paraldehyde	m. 60
	Alcohol 60 per cent.	dr. 2
	Carob syrup	dr. 4
	Aq.	ad fl. oz. 1

Linctus simplex, N.W.F. The use of carob syrup produces a superior linctus to the official one, the flavour of the carob blending well with the other ingredients. The natural amber colour of the syrup, moreover, renders the addition of azorubrum unnecessary.

Conclusions

1. The juice does not appear to have any physiologically undesirable properties.

2. It is rich in sugars and could be used as a sweetening agent where its colour and flavour are not contra-indicated. It would not be suitable in B.P. or B.P.C. preparations as an alternative to sucrose, but might be used in formulating linctuses and children's mixtures. In the latter its flavour may be an advantage.

3. Carob juice is incompatible with iron salts by reason of pseudotannins and catechins present.

4. A convenient form in which to handle the material for dispensing is as "syrup of carob" containing 90 per cent. w/v of the concentrated (44-45 Baumé) juice.

5. Preparations containing carob juice need to be filtered to render them bright. It would be an advantage from a pharmaceutical standpoint if better filtration methods were introduced into the manufacuring process before concentrating the product.

* It is hoped to give a detailed description of the carob fruit in a later paper.

† Trease, G. E., *Textbook of Pharmacognosy*, 1936, p. 101 et seq.

The examination was undertaken at the request of the Pharmaceutical Supplies Section, Ministry of Health.

EMPIRE AND WORLD TRADE

An important section of the report, recently published, of the 16th Congress of Chambers of Commerce of the British Empire, held in Johannesburg in September 1948, deals with international payments. After reviewing the short and long-term measures which are being taken to meet the world's balance of payments difficulties, and reaching the conclusion that they did not go to the root of the problem, the report that the Congress "has closely and critically examined the London Chamber's proposals" for a system of multilateral contra account "and recommends their adoption by Commonwealth Governments." Nothing must be contemplated which would in any way undermine the position of gold or directly or indirectly detract from its function. Subject to this reservation, the Congress believes that the system offers a means of attaining equilibrium "on the basis of an expanding world economy."

MISCELLANEOUS INQUIRIES

Bleaching Agent for Syrups.—*C. D. M.*—Sodium hydrosulphite has been used as a bleaching agent for sugar syrups. The amount ranges from 1-3 lb. of hydrosulphite to 4 tons of syrup.

Raspberry Vinegar.—*R. B.*—The following is a formula for raspberry vinegar which has frequently been used:—

Raspberry juice	3 pints
Acetic acid 33 per cent.	1 pint
Distilled water	6 pints

Deodorising Paraffin Oil.—*B. H. R.*—One method of removing the odour from paraffin oil is to mix together 5 lb. sodium bicarbonate, 5 gall. water and 5 gall. paraffin oil, shake together during 24 hours, allow to separate, and filter. The effectiveness of the method depends on the frequency and thoroughness of shaking.

Insecticide Aerosols.—*L. B. S.*—Much work has been published on the formulation of insecticide ærosol solutions. For the control of pea aphid and clover leaf weevil, however, Potts and colleagues have found very effective a solution of 10 per cent. DDT plus 0.1 per cent. pyrethrins in kerosene, used at high pressure.

Duty on Spirit.—*W. P.*—Excise duty on immature spirit, which is the type used in the preparation of medicinal and similar products, is at the rate of £10 12s. 4d. per proof gallon, payable at the time of purchase. Under suitable conditions a rebate of £9 17s. 7d. per proof gallon may be claimed when spirit is used for medicinal products, thus reducing the actual duty to 14s. 9d. per proof gallon.

Bats in Buildings.—*J. O'R.*—Short of killing them when dormant, no method is known of removing bats from buildings in the winter. Killing the animals is not normally advised as they are harmless and feed upon harmful insects such as gnats, mosquitoes, nocturnal moths, green-fly and injurious beetles. During the summer bats may be kept out of buildings by stopping all the holes by which they gain entrance.

Fowl Pest.—*L. M. A.*—The term "fowl pest" is used to describe both fowl plague and Newcastle disease, which are both compulsorily notifiable under the Fowl Pest Orders. Both are highly infectious diseases caused by viruses and acute forms result in a heavy death rate. Besides domestic fowls, turkeys, geese and ducks, and many species of birds, domestic and wild, are susceptible. The most likely sources of infection appear to be drinking water and foodstuffs contaminated by discharge from the mouth or nostrils or the droppings of affected birds. So far as is known, there is no treatment of any value for these diseases. Methods of protecting flocks against infection includes thorough disinfection of crates, bags, egg-boxes, etc., which may have been in contact with poultry or eggs. Washing soda solution (½ lb. to 1 gall. hot water) or a disinfectant labelled as an approved disinfectant under the Diseases of Animals Acts, may be used. Fumigation with formaldehyde gas is a suitable alternative.

Sodium Fluoride for Pigs.—*H. G.*—The recommended doses of sodium fluoride for pigs range from 2 gm. for 20-lb. pigs to 25 gm. for pigs over 200 lb. in weight, i.e., about 1 gm. per 10-lb. body weight. The dose is mixed with the feed and given in the evening. This dosage has been found effective in ascariasis in over 300 pigs, with only one case of fluoride poisoning. It is important that not more than four or five successive doses should be given, as fluorides accumulate in the body. A dosage scheme endorsed by the U.S. Department of Agriculture, consists of mixing the drug with dry ground feed to a strength of 1 per cent., and to give as one day's ration without previous fasting. The treatment may be expected to eliminate 95 per cent. more of the ascarids, and is well tolerated. By this method the pigs are best treated in groups of not more than ten, to ensure a reasonably equitable distribution of the drug. If the animals are not accustomed to dry ground feed, it is best to give them unmedicated dry feed for a day or two before dosing.

I.M.S. for Perfumes.—*D. C. G.*—A special toilet quality (Q grade) of industrial methylated spirit is used in the preparation of perfumery products, more highly rectified than the usual toilet grade, and denatured with methyl alcohol and solution of quassia. Application forms for authority to receive this spirit are obtainable from the Commissioners of Customs and Excise. Users are required to give a written undertaking to manufacture perfumes in accordance with the following general formulas: (1) Perfume essential oil and/or perfume synthetic chemical, not less than 5 per cent.; I.M.S. (Q grade) at not less than 60 o.p., not less than 75 per cent.; water to 100 per cent. (2) Perfume essential oil and/or perfume synthetic chemical, less than 5 per cent. but not less than 1 per cent.; diethyl phthalate 1 per cent.; I.M.S. (Q grade) at not less than 60 o.p., not less than 75 per cent.; water to 100 per cent. (3) Perfume essential oil and/or perfume synthetic chemical, more than 25 per cent.; I.M.S. (Q grade) at not less than 60 o.p., to 100 per cent.

Registering a Trade Mark.—*J. S. & S.*—To secure the registration of a trade mark name it is necessary to apply for registration to:—The Registrar, Patent Office Trade Marks Registry, 25 Southampton Buildings, Chancery Lane, London, W.C.2, making use of form T.M. No. 2, which must bear an Inland Revenue stamp fee of £1. The application must be accompanied by four representations of the trade mark given on form T.M. No. 4. The application must indicate the part of the Register in which registration is sought. Details of the various classes (too numerous to be listed here) are given in "THE CHEMIST AND DRUGGIST DIARY AND YEAR BOOK, 1940." They may also be obtained from the Trade Marks Registry. If the intended trade mark includes a design or device, an electrotype or zincotype of the trade mark for advertisement in "The Trade Marks Journal," must be sent to the Registry when the application has been accepted. After advertisement has been made a further stamp fee of £2 has to be made before certificates are granted. If the mark is rejected the applicant has the right to appeal against the decision.

GUIDE TO NEW MEDICAMENTS

Information about new proprietary medicaments to be supplied principally on prescriptions. Editorial recommendation is not implied. Reprints obtainable on application.

DIPARCOL

MANUFACTURER: May & Baker, Ltd., Dagenham, Essex.

DESCRIPTION: Diethazine hydrochloride.

INDICATIONS: Symptomatic improvement in Parkinson's syndrome and certain other extra-pyramidal disorders.

DOSAGE: From 0.10 to 0.50 gm. daily initially, increasing gradually from 0.50 to 1.5 gm. daily. Treatment must be commenced or withdrawn gradually.

HOW SUPPLIED: Sugar-coated tablets, containing 0.25 gm. (packs of 50 and 500), or 0.05 gm. (packs of 100 and 500).

PYRIBENZAMINE

MANUFACTURER: Ciba Laboratories, Ltd., Horsham, Sussex.

DESCRIPTION: N-benzyl-N (α-pyridyl)-N′-dimethylethylene-diamine monohydrochloride.

INDICATIONS: Urticaria, drug reactions, hay fever, anaphylactoid reactions, allergic dermatoses, pruritic skin conditions and allergic cases of asthma, migraine and eczema.

DOSAGE: Average; 0.05 to 0.2 gm. daily. Maximum; 0.6 gm. daily, preferably taken after meals and at bedtime.

HOW SUPPLIED: Tablets containing 0.05 gm. in packages of 20, 100 and 500. Elixir containing 0.005 gm. per mil, in bottles of 100 mil.

NOTES: The elixir is flavoured specially for administration to children.

ABIDEC DROPS

MANUFACTURER: Parke, Davis & Co., Staines Road, Hounslow, Middlesex.

DESCRIPTION AND FORMULA: A non-alcoholic solution of six vitamins. Each 10 minims of the solution contains:

Vitamin A	5,000 international units
Vitamin D	1,000 international units
Vitamin B_1 (aneurine hydrochloride)	1 mgm.
Vitamin B_2 (riboflavin)...	0.4 mgm.
Vitamin C (ascorbic acid)	25 mgm.
Nicotinamide	5 mgm.

INDICATIONS: The prevention and treatment of vitamin deficiencies.

DOSAGE: Infants under one year, 5 min. (15 drops). Older children 10 min. (30 drops).

HOW SUPPLIED: In bottles of 10 mils.

HEPTALGIN

MANUFACTURER: Glaxo Laboratories, Ltd., Greenford Middlesex.

DESCRIPTION: 4-4 diphenyl-1-6-morpholinoheptan-3-one-hydrochloride.

INDICATIONS: Analgesia in fibrositis, pleurisy, coronary thrombosis, headache of subarachnoid hæmorrhage; colics of gall bladder and ureter; inoperable malignant growth, sinusitis, toothache, gastric ulcers, etc.

DOSAGE: For moderate to severe pain, 10-30 mgm. orally, repeated if necessary in three to four hours. For intensely severe pain, 10 mgm. by intramuscular or subcutaneous injection.

HOW SUPPLIED: Tablets, each containing 10 mgm., in bottles of twenty-five and 100, and 1-mil ampoules, each containing 10 mgm. in solution, in boxes of six.

NOTES: During preliminary trials the preparation was known as C.B.11. The drug abolishes pain with little or no cortical depression, though mild drowsiness follows full dosage.

STOCK EXCHANGE PRICES

£1 unit unless otherwise stated	Nov. 30 1948	Dec. 31 1948
	s. d.	s. d.
Albright & Wilson, ord., 5s. ...	31 0	31 0
Allen & Hanburys, prefd. ord. 7% cum.	32 6	32 6
Amber Chemical, ord., 2s. ...	9 6	9 3
Amber Chemical, 5% cum. pref.	25 0	25 0
Ascotts Pharmacies, ord. stock, 5s.	9 4½	8 9
Aspro, ord. stock, 5s.	27 0	28 9
Beecham Group, defd., 2s. 6d. ...	18 4½	17 7½
Beecham Maclean Holdings 4% red. cum. pref.	21 3	21 10½
Boake, Roberts, ord., 5s. ...	31 10½	31 3
Boots (Eastern) "A" pfd. 6% cum.	31 0	31 0
Boots (Northern) "A" pfd. 6% cum.	31 0	31 0
Boots (Western) "A" pfd. ord. (7% non-cum.)	37 3	37 3
Boots Pure Drug, ord., 5s. ...	56 6	56 0
Borax Consold., defd. ord. stock	63 1½	63 6
British Alkaloids, ord., 1s. ...	5 6	7 0
British Chemicals & Biologicals, 4% cum. red. pref.	22 0	22 0
British Drug Houses, ord., 5s. ...	9 6	9 0
British Emulsifiers, 2s.	1 0	1 0
British Glues & Chemic., ord., 4s.	20 3	21 6
British Industrial Plastics, ord., 2s.	7 0	6 9
British Optical & Prec. Eng., 5%	96%	96%
British Oxygen Co., ord. stock ...	105 0	102 6
British Xylonite Co., ord. stock	105 0	115 0
Burt, Boulton & Haywood, ord.	28 9	28 9
Bush (W. J.), & Co., ord. ...	82 6	82 6
Camwal, ord.	21 3	21 3
Cooper, McD. & Robertson, ord.	36 3	36 10½
Cow, (P.B.) & Co., ord. stock, 4s.	14 10½	14 10½
Crosfield, J., & Sons, 5% cum. pre-pref.	26 3	26 3
Cussons Sons & Co., ord stock, 2s.	18 1½	17 6
Dale (John), ord., 5s.	13 6	13 6
Distillers, ord. stock, 4s.	29 10½	29 3
Dubarry Perfumery Co., ord., 1s.	4 7½	4 7½
Dunlop Rubber Co., ord. stock ...	76 0	76 0
Energen Foods Co., ord., 2s. ...	9 3	9 3
Eno Proprietaries, 5½% cum. pref.	26 3	26 3
Eucryl, stock, 2s.	4 9	4 9
Evans Medical Supplies, ord. stock	40 0	40 0
Field, J. C. & J., ord., 10s. ...	28 9	28 9
Fisons, ord. stock	59 0	59 0
Fisons, 4½% cum. pref.	24 0	24 0
Galloway, P. H., ord., 2s. ...	4 9	4 9
Gillette Safety Razor Co. shares (no par value)	$52.00	$52.00
Glaxo Laboratories, ord. stock, 10s.	390 0	430 0
Glaxo Laboratories, 8% cum. prefd. ord. stock, 10s.	20 2¼	20 3¾
Gossage, W., & Sons, 5% 1st. cum. pref.	26 3	26 3
Greeff-Chemicals Holdgs., ord., 5s.	14 6	14 9
Griffiths Hughes Proprietaries, ord.	28 9	28 9
Guiterman, S., ord. stock, 2s. ...	2 6	3 0
Hampshire, F. W., stock, 5s. ...	80 0	80 0
Horlicks, stock, 5s.	31 3	28 9
Hovenden, R., & Sons, 7% cum. "A" pref.	26 3	26 3

£1 unit unless otherwise stated	Nov. 30 1948	Dec. 31 1948
	s. d	s. d.
Idris, "A" ord.	38 9	38 9
Ilford, ord. stock, 5s.	27 6	28 9
Imperial Chemical Industries, ord.	49 0	49 3
Imperial Chemical Industries, cum. pref. stock	38 0	37 3
International Sponge Importers, ord. stock, 5s.	5 0	5 1½
Kent, G. B., & Sons, 5% cum. ptpg. pref., 12s. 6d.	15 7½	15 0
Kershaw, A., & Sons, ord., 1s. ...	1 3	1 4½
Kleeman, O. & M., ord. stock, 1s.	22 0	22 0
Laporte Chemicals, ord. stock ...	21 3	21 3
Lever Brothers & Unilever, ord.	51 3	50 0
Lewis & Burrows, ord. stock ...	30 0	30 0
Lewis & Peat, ord., 1s.	1 6	1 6
Liebig's Extract of Meat, ord., £5	330 0	300 0
Macleans, 4% red. cum. pref. ...	20 0	20 0
Mellin's Food, 6% cum. pref. ...	7 6	7 6
Milton Antiseptic, ord., 10s. ...	25 0	25 0
Mono Containers, 5s.	16 6¾	17 2½
Monsanto Chemicals, ord., 5s. ...	62 6	62 6
Pears, A. & F., 5% deb. stock, irred.	130%	132%
Potter & Clarke, ord., 1s. ...	4 3	4 3
Reckitt & Sons, ord. stock ...	112 6	112 6
Rolls Razor, prefd. ord., 10s. ...	23 9	22 6
Sangers, ord. stock, 5s.	34 0	34 0
"Sanitas" Trust, ord., 10s. ...	26 3	26 3
Savory & Moore, 5½% 1st red. cum. pref. stock	23 5¼	23 5¼
Sherley, A. F., & Co., 8% cum. prefd. ord.	22 6	22 6
Smith & Nephew Associated Cos., ord., 4s.	19 0	19 0
South African Druggists, ord., 5s.	24 4½	22 0
Southalls (Birmingham), stock, 5s.	41 0	41 3
Sternol, 8% cum. ptpg. prefd. ord., 10s.	15 7½	15 7½
Stevenson & Howell, ord. stock, 5s.	25 0	25 0
Taylors, Cash Chemists, London, 6% cum. pref.	29 4½	29 4½
Taylors, Cash Chemists, Trust, 6% cum. pref.	29 4½	29 4½
Taylors Drug Co., 7% "A" cum. pref.	33 1½	32 6
United Glass Bottle, ord. stock ...	78 9	80 0
Veno Drug Co., 12% cum. prefd. ord.	40 0	40 0
Virol, ord.	72 6	72 6
Viscose Development Co., ord. stock, 5s.	10 6	10 6
Vitamins, 1s.	4 7½	4 10½
Wesley, Harold, 5s.	16 3	16 3
Whites (Timothy) & Taylors, ord., 5s.	39 4½	40 0
Whites (Timothy) & Taylors, 7½% cum. pref.	37 6	38 9
Wright, Layman & Umney, 7% cum. pref.	31 3	31 3
Yardley & Co., ord., 4s.	57 6	57 6
Yardley & Co., "A" ord., 4s. ...	57 6	57 6

CORRESPONDENCE

Sending Prescriptions for Pricing

SIR,—After reading of the new pricing arrangements, I wonder if any member of the Central National Health Service (Contractors) Committee actually runs a pharmacy with himself as the only M.P.S. available. Not one, I'll be bound, or else we should not have seen such a blunderbuss list of endorsements and sortings. It is bureaucracy gone mad and I for one refuse to do any such sorting, labelling of bundles, etc. Let every contractor demand the immediate withdrawal of E.C.N.8.

London, N.W.10. SCRIVEN J. TURNER.

Suicides by Poisoning

SIR,—Mr. A. G. Fennell considers (see *C. & D.*, January 1, p. 19) that owing to a "crop of cases of poisoning by aspirin tablets, probably suicidal," there should be a restriction of sale to pharmacists. Surely he cannot believe such a measure would prevent a single death! How, then, would he account for the many poisonings and suicides from drugs purchased exclusively from pharmacists? Does he suggest that the suicide will receive preferential consideration in the hereafter if he will only buy his instrument of death from a pharmacist?

Blackpool. W. HORROCKS.

Vegetable Oils as Cooking Fats

SIR,—In view of the publicity recently given to successful prosecutions against individuals and firms using mineral oils, notably liquid paraffin, in the preparation of foodstuffs, your readers may be interested in the following notes on the use of fat substitutes. The main objections to the use of liquid paraffin and other mineral oils in food manufacture are that they are known to cause internal irritation, and that their prolonged use is liable, according to current medical opinion, to set up cancer. The objections are not valid against the refined edible vegetable oils, such as teaseed, apricot-kernel, olive, hazelnut and sweet almond. These oils, which were freed from Government control early in 1947, are pure liquid vegetable fats and should not be considered as mere substitutes; they form, in fact, a valuable addition to the supplies of rationed fats. They are obtainable either pure or as blends of two or more of the oils, and their use is not only within the law, but of great benefit to manufacturer and consumer alike, both in regard to quantities available and high nutritional value. Traders should, of course, protect themselves by purchasing only from reputable sources, by examining the descriptions given of the oils on labels, and by asking the supplier for a warranty that the product conforms with the Food and Drugs Acts.

CITRUS PRODUCTS CO., LTD.,
J. J. Nicholls, B.Sc., A.R.I.C.,
Wembley. *Chief chemist.*

Employees' Organisation

SIR,—Pharmacists will already have learnt from a report in THE CHEMIST AND DRUGGIST (1948.II.742) of the formation, following a meeting of the Harrow Branch of the Pharmaceutical Society on November 8, 1948, of an employee organisation. The interim committee elected on that date has discussed the aims and scope of such an organisation, and has drafted a constitution for ratification by a general meeting of all employee pharmacists in Harrow, Wembley, and the neighbouring districts of Middlesex and Bucks. The meeting will be held at the Baptist Church Hall, College Road, Harrow, at 8 p.m. on Thursday, January 20. We are endeavouring to notify all employee pharmacists personally and appeal for the co-operation and support of all employees in the area.

ALAN W. BAKER, *Secretary*,
MARGERIE E. PLEAR,
Harrow. *Assistant Secretary.*

Testing of Medicines

SIR,—I have received from the local Executive Council particulars of a testing scheme for dispensed medicines and appliances supplied by chemists. This iniquitous practice is to commence again after a lapse of several years. Why? Is it that so many people died after taking untested medicines, or that so many chemists have become millionaires by supplying drugs and appliances of inferior quality? I cannot believe it. Whatever the reason, why are contractors alone suspect? What about the rural doctor who does his own dispensing, or the hospital pharmacist? Are they above suspicion? Why not tests for dentists and opticians? Let it be either all or none. To pick on the poor chemist who (in this area, at all events) still waits patiently for the balance of payment of scripts dispensed in May and June 1948, is the last straw.

Bristol, 4. E. B. DUNN.

TRADE REPORT

Spot quotations for pharmaceutical chemicals represent the prices for wholesale quantities of standard quality. Prices of crude drugs and essential oils vary as to brand or grade.

28 Essex Street, W.C.2, Jan. 5

ALL sections of the trade have experienced quiet conditions during the past week and the amount of new business has been small. In PHARMACEUTICAL and FINE CHEMICALS markets the principal feature has been an announcement of lower rates from January 1 for CREAM OF TARTAR and TARTARIC ACID following an easing in argols. The first-mentioned product has been reduced in price by 5s. per cwt., and tartaric acid by 6s. per cwt. End of year stocktaking has kept the volume of home-trade inquiry for CRUDE DRUGS at a low level and prices are little changed on the week. A request for tenders for a large number of drugs for use in the Anglo-American bizone of Germany has been received from Hamburg. In many instances the requirements are for very large quantities. MENTHOL is in fair request for the home trade, and for export to India and Scandinavia. Spot holders of menthol are asking 43s. 6d. to 44s. 6d. per lb., duty paid; quotations for April-May shipment from Brazil are at about 35s., c.i.f. Interest in ESSENTIAL OILS has been slight and the markets are inclined to weaken. Bearish activity in the market for Java CITRONELLA depressed prices to 7s. per lb. but recently 8s. per lb. or slightly more has been quoted for this oil. CORIANDER remains a firm market with few offers. DILL is in short supply.

U.S. Drug and Chemical Report

New York, December 31, 1948

PRICES of most PHARMACEUTICAL and FINE CHEMICALS have been fairly steady despite the usual falling off in activity because of the approach of the inventory period. Higher prices have been announced for COPPER SULPHATE, including the reagent and U.S.P. grades. The advances range from 8 to 12 cents per lb.

It is understood that imported GLYCERIN (synthetic) is being offered here at 35 cents per lb., duty paid; meanwhile, domestic crude glycerin is extremely hard to locate. The BOTANICAL DRUGS market displayed a somewhat firmer tone last week with ERGOT, RHUBARB and ARECA NUTS all in tight supply. ARNICA FLOWERS and DANDELION ROOT were among the items which moved into an easier position. Reports indicate that the drug stock position at the end of 1948 will be considerably smaller than twelve months earlier. A firmer tone prevails in the ESSENTIAL OILS market despite the inventory period being near at hand. A fair number of orders are reported on dealers' books. Java oils became firmer on the Dutch action in Indonesia, while French oils were unsettled on rumours of the possibility of a further reduction in the value of the French franc.

Exchange Rates on London

Bank of England fixed rates at the opening on Wednesday morning were:—

Centre	Quoted	Rate
*Alexandria ...	Piastres to £	97½—97¾
Amsterdam ...	Florins to £	10.68—10.70
*Bombay	Pence to rupees	1-5 1/16—1-6 1/16
Brussels	Francs to £	176½—176¾
Copenhagen ...	Kroner to £	19.32—19.36
Dutch East Indies	Florins to £	10.68—10.70
*Hong Kong ...	Pence to $	1-2 15/16—1-3 1/16
Lisbon	Escudos to £	99.80—100.20
Montreal	Dollars to £	4.02¾—4.03¼
New York ...	Dollars to £	4.02¾—4.03¼
Oslo	Kroner to £	19.98—20.02
†Paris	Francs to £	1,061—1,063
Rio de Janeiro ...	Cruz to £	75.4416
*Singapore ...	Pence to $	2-4—2-4½
Stockholm ...	Kronor to £	14.47—14.50
Zurich	Francs to £	17.34—17.36

* Free market rates
†Forward francs 1 fr. either side par.

Pharmaceutical Chemicals

ACETANILIDE.—Steady. Quotations for 1-cwt. lots in kegs are at 2s. 3d. per lb. for crystals and 2s. 4d. for powder.

ASPIRIN. — Home-trade prices are unchanged. Makers' quotation for POWDER is 3s. 5½d. per lb. in 10-cwt. lots and 3s. 7d. per lb. in 1-cwt. lots. Scheduled rates per lb. for quantities of 28 lb. and under 1 cwt. are: 4s. 6d. (1-lb. containers); 4s. 5d. (2-lb.); 4s. 4½d. (4-lb.); 4s. 3½d. (7-lb.); 4s. 3d. (14-lb.); 4s. 2d. (28-lb.). Net one month. Rates per 1,000 for bulk supplies of TABLETS are: Under 5,000, 3s. 9d.; 5,000 and over, 3s. 7d.; 10,000, 3s. 6d.; 25,000, 3s. 4d.; 50,000, 3s. 3d.; 100,000, 3s. 2d.; 250,000, 3s. 1½d.; 500,000, 3s. 1d.; 1,000,000, 3s.

BORAX.—Makers' current prices are: B.P. quality, granulated, £38 per ton; crystal, £39; powder, £39 10s. Commercial grades £8 per ton less. Packed in 1-cwt. bags delivered carriage paid in Great Britain in 1-ton lots and upwards. Terms quoted do not apply to Northern Ireland.

BROMIDES.—Steady. Current resellers' rates per lb. for POTASSIUM in quantities of 28 lb. to 1 cwt. (containers in brackets) are as follows: 3s. 5½d. (1-lb.), 3s. 4½d. (2-lb.), 3s. 4d. (4-lb.), 3s. 3d. (7-lb.), 3s. 2½d. (14-lb.), 3s. 1½d. (28-lb.). In bulk makers quote 1 cwt. at 2s. 7d. per lb. and 5 cwt. at 2s. 6d. Powder is 2d. per lb. extra. SODIUM is 1½d. per lb. less than above rates; AMMONIUM is ½d. per lb. more than above rates. Terms are net; carriage paid on 1-cwt. lots in U.K.

BUTYL CHLORAL HYDRATE. — Current ·ices are from 17s. 6d. per lb. upwards.

CAFFEINE.—Steady. Makers' rates per . for 1-cwt. lots are: ALKALOID, anhy-·ous, 35s. 6d., and B.P., 33s. 6d.; CITRATE,)s.; SODIUM BENZOATE, B.P., 22s. 6d.; ODIUM SALICYLATE, B.P.C., 23s. 3d.; ODIUM IODIDE, 26s. 56-lb. lots are 1s. per . more than above rates; 28 lb., 1s. more an for 56 lb.

CREAM OF TARTAR.—Easier. Makers' ıtes from January 1 in the home trade ·e: 10-cwt. lots, 148s. per cwt.; 5-10 vt., 149s.; less than 5 cwt. and more an 2 cwt., 150s.; less than 2 cwt. and ore than 1 cwt., 152s., delivered.

CREOSOTE, B.P.—Ex beechwood, French offered at about 7s. to 7s. 9d., and wedish at 8s. to 8s. 3d. per lb. In good quiry.

DIGITALIN, B.P.C.—Current quotations ·e from 9s. to 11s. 6d. per gm.

HOMATROPINE.—Makers' prices per oz. ·e as follows (prices per gm. in brackets): LKALOID.—1 oz., 97s. 6d.; 4 oz., 92s. 6d. 6 oz., 87s. 6d. (4s.). HYDROCHLORIDE, YDROBROMIDE and SULPHATE.—1 oz., 75s.; oz., 70s.; 16 oz., 65s. (3s. 2d.).

HYDROCYANIC ACID.—B.P.C. (Scheele's) quoted at 1s. 5½d. per lb. and B.P. at . 1½l. per lb.

HYOSCINE HYDROBROMIDE. — Makers' ·ices are from 115s. to 125s. per oz., ·cording to quantity.

HYPOPHOSPHITES.—Makers' rates per lb. r 7-lb. lots are: AMMONIUM, 9s. 3d.; ARIUM, 6s. 3d.; CALCIUM, 4s. 11d.; IRON, . 4d.; MAGNESIUM, 7s. 9d.; MANGANESE, . 5d.; POTASSIUM, 6s. 1d.; SODIUM, 5s. 7d.

HYPOPHOSPHOROUS ACID.—In winchesters ·ices are around 6s. 2d. per lb.

METHYL SALICYLATE.—Current rates are follows: Winchester quarts, 2s. 2½d. per .; 56 lb., in demijohns, 2s. 1d.; 1 cwt., in mijohns or carboys, 2s. 0½d.; 5 cwt., 2s. ll prices are net.

PHELLANDRENE.—Refined is quoted at . 5l. per lb. in carboys, and from 1s. 6½d. 2s. 1d. per lb. in winchesters.

POTASSIUM PERMANGANATE.—In good re-·est. Makers' rates are as follows: B.P. n 1-cwt. drums), 1 cwt. and over, 1s. 8½d. ·r lb.; 3 cwt. and over, 1s. 8d. TECHNICAL n 1-cwt. drums), 1 cwt. and over, 166s. 3d. ·r cwt.; 3 cwt. and over, 161s. 9d.; 5 vt. and over, 159s. 3d.; 1 ton and over, 6s. 9d.; 4 tons and over, 154s. 3d. ECHNICAL (in 5-cwt. drums), 5 cwt. and ·er, 156s. 9d. per cwt.; 1 ton and ·er, 154s. 3d.; 4 tons and over, 152s. ·rms, net, carriage paid to nearest station ·r port of departure for Northern Ire-nd), containers extra and returnable.

TARTARIC ACID.—Easier. Makers' rates om January 1 in the home trade are:)-cwt. lots and over, 200s. per cwt.; 9 cwt., 202s.; 2-4 cwt., 204s., 1 cwt., 6s., delivered.

Crude Drugs

ACONITE.—Steady. Indian, on the spot, is quoted at 275s. per cwt.; *napellus*, offered at 3s. 10½d. to 4s. 3d., duty paid.

AGAR.—Kobé No. 1 strip on spot is quoted at 16s. 6d. per lb., with other grades of Japanese strip down to 14s. 6d. per lb., duty paid; forward, 14s. to 15s., c.i.f., nominal. South African powder, in tins in cases, quoted at 20s. per lb., spot.

ALOES.—Steady. Cape on the spot is offered at from 110s. to 115s. for prime quality. Curaçao, in boxes, 200s. to 220s. per cwt., as to quality. Socotrine, 160s. to 180s. per cwt., spot.

ANISE (STAR).—Supplies on spot are quoted at about 140s. per cwt., duty paid.

ANTIMONY.—Metal prices are: 99.6 per cent., regulus, £210 per ton, delivered; 99 per cent., £200; 70 per cent. crude, £165.

ARECA NUTS.—Steady. Ceylon is quoted at 65s. per cwt., spot London.

ARNICA.—Flowers on spot are offered at prices from 1s. 9d. to 2s. 3d. per lb.

ASAFETIDA.—Persian block on spot is steady at from £14 10s. to £24 per cwt., according to quality and seller.

BALSAMS.—*Canada*, 19s. per lb., spot. Pará *Copaiba* (soluble), 4s. 9d. to 5s. per lb., spot. San Salvador, *Peru*, 5s. per lb., duty paid. *Tolu*, 14s. per lb., spot; shipment, 11s. 9d., c.i.f.

BAY LEAVES.—Quotations are steady at from 11d. to 1s. per lb., duty paid.

BELLADONNA.—Yugoslav root is quoted at from 4s. 6d. to 4s. 9d. per lb., duty paid, as to test; English leaves are offering at from 4s. 9d. (0.546 per cent.) per lb.

BENZOIN.—Sumatra block on the spot is now quoted from £14 10s. to £16 per cwt., as to quality; Sumatra almonds, £52 10s. Siam free almonds, spot, £120 per cwt.

BUCHU.—Short rounds scarce on spot at 4s. per lb.; ovals, 3s. 6d.

CALABAR BEANS.—Steady. Spot quotations are from 10½d. to 11d. per lb.

CALUMBA.—Small supplies of natural root on spot are offered at about 77s. 6d. per cwt.

CAMPHOR.—Chinese tablets are offered at from 7s. 6d. to 8s. 6d.; refined powder (B.P.), 6s. 9d.; B.B. grade, 6s. 3d.; slabs (2½-lb.), 7s. 3d.; crude powder, 6s. per lb., all spot London, duty paid.

CANTHARIDES.—Steady. Spot quotations for Chinese are at about 8s. 3d. per lb.; shipment, 4s. 6d. per lb., c.i.f.

CAPSICUMS.—African on spot is offered at from 80s. to 130s. per cwt., as to quality.

CASCARA SAGRADA.—Quiet. 1946 and 1947 peel are offering at around 200s. per cwt. 1948 bark on spot is quoted at about 195s., duty paid.

CASCARILLA.—Steady. Quills are quoted at 1s. 5d. to 1s. 7d. per lb., spot; siftings, 1s. 4d. to 1s. 5d.

CASSIA PODS (*C. fistula*).—Prices of East Indian are around 65s. per cwt., ex wharf.

CHAMOMILE FLOWERS.—Spot quotation for Belgian is 4s. per lb.

CHAULMOOGRA.—*Hydnocarpus* on spot is quoted at 1s. 9d. per lb.

CHILLIES.—Firm. Mombasa on spot, 115s. per cwt.; forward, 110s., nominal, c.i.f. Nigerian, spot, 100s. per cwt.; Japanese-type, 160s.

CINNAMON.—Spot quotations for 0000 are at from 2s. 9d. per lb.; quillings are offered at 1s. 4d., featherings at 1s. 3d. and chips at 6d. per lb.

CLOVES.—Firm. Zanzibar, spot, quoted at 1s. per lb.; shipment, 1s. 1d., c.i.f. Madagascar, spot, in bond, 10½d.; shipment, 10d., c.i.f. Penang, spot, 2s. 9d. to 3s. per lb.

COCHINEAL.—Quiet. Silver greys, steady at 4s. 3d. per lb., spot; black on spot are firm at 5s. per lb.

ERGOT.—Spot offers of Portuguese are at 5s. 9d. per lb.; shipment, 5s. 4d., c.i.f.

FRANGULA.—Bark is offered at from 170s. to 190s. per cwt., as to holder.

GALANGAL.—Firmer. Quoted at 97s. 6d. per cwt., in bond.

GALLS.—Steady. Persian blues quoted on spot at 260s. per cwt.

GAMBOGE.—Siam pipe on the spot is offered at £50 per cwt., duty paid.

GENTIAN.—French natural on spot is quoted at from 57s. 6d. to 62s. per cwt.; sliced root is offered at 75s., spot.

GINGER.—Quiet. African on spot is quoted at 87s. 6d. per cwt. Jamaican No. 1 quoted at 130s.; No. 2, 122s. 6d.; No. 3, 120s. per cwt., spot.

GUAIACUM RESIN.—Steady. Prices are from 2s. 4½d. to 2s. 6d. per lb., spot.

GUM ACACIA.—Kordofan cleaned sorts on the spot are offering at 65s. per cwt.; shipment, 60s., c.i.f. Bleached No. 1, 125s., spot; shipment, 115s., c.i.f. Talha on spot, 45s. per cwt.; forward, 41s., c.i.f.

HENNA.—Sudanese leaves on the spot are offering at prices around 95s. per cwt. Indian is available at about 85s. per cwt.; powdered leaf, 1s. 5d. per lb.

IPECACUANHA.—Very little inquiry. Spot quotations are at 23s. 6d. per lb.; shipment offers are steady at 23s., c.i.f.

JALAP.—Vera Cruz, spot, 2s. 6d. to 3s. per lb. as to test (10 to 15 per cent. resin), Brazilian (13 per cent.), 1s. 6d.

KAMALA.—Spot prices are at about 2s. 3d. per lb.

KARAYA.—No. 1 gum on spot is quoted at 215s.; to arrive, 205s., c.i.f. No. 2, 180s. per cwt., spot.

KINO.—Indian, 7s. 6d. per lb., spot.

KOLA NUTS. — African quarters are offered at about 6d. per lb.; halves, from 2d. to 2½d. Jamaican washed halves are quoted at 3d. per lb.

LIQUORICE.—Anatolian natural, spot from 47s. to 50s. per cwt., as to holder Syrian, 40s.; Russian, 45s. 6d. to 46s Italian block, 275s. per cwt., spot; Italian stick, from £375 to £560 per ton, as to quantity and grade. Turkish block, from 225s. to 235s. per cwt.; American block from 220s. to 225s. per cwt.

MENTHOL.—Brazil on the spot is offered at 44s. per lb., duty paid; in bond, 41s. 6d

MERCURY.—Quoted at £18 10s. per flask ex warehouse; shipment, £17 17s. 6d. c.i.f., U.K.

MYRRH.—Steady. Aden sorts, £12 per cwt.; siftings, £6 10s. to £7 per cwt., spot

NUTMEG.—Steady. West Indian 80's on the spot, 3s.; sound unassorted, 2s. 10d. wormy and broken, 1s. 8d. per lb.

NUX VOMICA.—Quiet. Madras, spot steady at 40s. to 42s. 6d. per cwt.; Man galore, 40s.; Cochin, 42s. 6d., spot.

OLIBANUM.—Steady. Fair drop is offered at 150s., peas at 190s., fair garbling, 125s and siftings at 80s. per cwt., spot.

ORANGE PEEL.—Spanish quarters, 1s. 2d to 1s. 5d., spot; sweet ribbon, 1s. 9d Seville bitter ribbon, 1s. 1d.; thin-cut Tripoli, 1s. 2d. per lb.

ORRIS.—Florentine root on the spot is offered at 130s. per cwt.; Verona root 110s. to 120s. per cwt., spot.

PAPAIN.—East African No. 1 white on the spot is offering at about 18s. per lb and Ceylon brown at 12s. per lb.

PIMENTO.—Quiet. Quotations are from 1s. 2¾d. to 1s. 3d. per lb., spot; to arrive 119s. per cwt., c.i.f.

PODOPHYLLUM.—Steady. American (*peltatum*), spot London, 280s. per cwt Indian (*emodi*) from 315s. to 320s., spot forward, 290s. per cwt., c.i.f.

PSYLLIUM SEED.—French black is quoted at 2s. per lb., duty paid; Indian (isphagula), 120s. per cwt., spot.

QUASSIA.—Spot quotations for chips are 35s. to 36s. per cwt., as to holder.

QUINCE SEEDS.—Steady. Cape on spot is quoted from 4s. 3d. to 5s. per lb.

QUILLAIA.—Natural bark is offering at 92s. 6d. per cwt., spot; cut is offered at 125s., and crushed at 120s.

RHATANY.—Quiet. Spot quotations are at about 9d. per lb.

RHUBARB.—Chinese rough round on spot is firm at from 4s. 6d. to 5s. per lb.; shipment offers of sound root at origin are at 4s., c.i.f. Wormy material on spot quoted at 2s. 9d. to 3s. per lb.

SANDARAC. — Spot quotations are at 5s. 9d. per lb.; afloat, 5s. 6d., c.i.f.

SARSAPARILLA.—Jamaican native red on spot is steady at from 1s. 10½d. to 2s. 1d per lb., as to seller. A parcel of grey quoted at 4s. 3d. per lb., spot.

SCAMMONY.—Root (18 per cent. resin) on spot is quoted at 65s. per cwt.

SEEDS.—ANISE.—Cyprus, 1s. 4½d. per .; and Turkish, 1s. 4d. per lb., duty paid, ot London. CARAWAY.—Dutch, 122s. 6d. r cwt., duty paid, spot London. CELERY. Indian is 1s. 2 l. per lb., spot London or verpool.. No business reported at this ure. CORIANDER.—Argentine, quoted at s. per cwt., duty paid, London or Liver-ol; Morocco, offered at 38s. per cwt., ty paid, spot London. CUMIN.—Indian, 5s. per cwt., spot Liverpool; Cyprus, 0s. per cwt. spot London. DILL.—dian in London quoted at 47s. 6d. per t.; and 46s. 6 l. per cwt., ex warehouse verpool. FENNEL.—Indian, 70s. per cwt., oted, spot London; and 69s., spot Liver-ol. FENUGREEK.—Indian, in Liverpool, offered at 54s. per cwt.; Morocco, quoted 53s. per cwt., duty paid, spot London or verpool.

SENEGA.—Spot offers are at 8s. 6d. per ; for shipment, 8s. per lb., c.i.f.

SENNA.—Steady. Tinnevelly leaves, spot,). 1, 9d. to 1s. per lb.; No. 2, 7½d. to .; No. 3, 5d. to 5½d.; Tinnevelly pods, nd-picked, 9d. to 1s. 4d.; manufacturing, d. to 5½d. Alexandrian pods, hand-ked, spot, from 4s. 9d. to 5s. 9d., accord-g to quality and seller; medium, 2s. 9d.; nufacturing, from 1s. to 1s. 9d. per lb.; exandrian leaves, f.a.q., 1s. 2d.

SHELLAC.—F.O.T.N., pure, 335s.; F.O. andard 1, 345s.; fine orange, 360s. to 0s. per cwt., all ex London warehouse.

SQUILL.—Italian white, 63s. to 65s. per t., spot, according to quality and seller.

STRAMONIUM.—Quiet. Indian on spot offered at 55s. per cwt.

STROPHANTHUS.—Steady. *Kombé*, 100 per nt., spot, is quoted at 11s. 6d. per lb.

STYRAX.—Supplies are offered at about 6d. per lb., duty pai l.

TONKA BEANS.—Steady. Spot quotations at 5s. 9d. per lb. for Pará blacks, and for Trinidad frosted.

TRAGACANTH.—Steady. Selected white,) per cwt.; other white grades, from £55 £85; pale leaf, £35 to £40; amber, £20 £27; red, £14; hoggy, about £10 10s.

UVÆ URSI.—Spot quotations, ex wharf ndon, are around 80s. per cwt.

WAXES.—The markets remain quiet. ES'.—Dar-es-Salaam, 335s. per cwt., ot; 330s., c.i.f. Benguela, 335s., duty id; in bond, 310s.; shipment, 300s., c.i.f. NDELILLA.—Prices are at 407s. 6d. per t. for spot supplies and 400s., c.i.f., for pment. CARNAUBA. — Prime yellow,)s per cwt., spot; 650s., c.i.f. Fatty y. on spot, 470s. per cwt.; shipment,)s., c.i.f., buyer's licence. Chalky grey,)s., spot; 410s., c.i.f. MONTAN.—Rei-k, 285s. per cwt., spot; Czechoslovak de, 255s. OURICURI.—1 per cent.,)s. per cwt., c.i.f. 2.8 per cent., spot,)s.; 6 per cent., spot, 420s.; 9 per cent., t, 405s. SPERMACETI. — Steady at 10½d. per lb., spot.

Essential and Expressed Oils

ALMOND.—B.P. sweet oil is quoted at about 5s. to 6s. per lb. Bitter essential oil is offered at from 27s. 6d. to 40s. per lb., as to grade.

ANISE.—Steady. Chinese star, in drums, is quoted at 5s. 2d. to 5s. 3d. per lb., with up to 5s. 6d. for smaller quantities; afloat, 5s., c.i.f.; for shipment, 4s. 10d., c.i.f.

APRICOT KERNEL.—Prices are around 5s. 9d. to 6s. per lb., spot.

CADE.—Steady. Spanish oil on spot is offered at from 3s. 4d. to 3s. 10d. per lb., as to quantity; French is quoted at about 2s. 9d. per lb., spot.

CAJUPUT.—B.P. is offering at from 23s. to 25s. per lb., spot.

CITRONELLA.—Ceylon is quoted at from 3s. 8 l. to 3s. 10d. per lb., spot; forward, 3s. 5d., c.i.f. Java on spot is offering at around 8s. per lb.; shipment, 6s. 6d., c.i.f.

LAVANDIN.—Spot quotations for new-crop oil are from 7s. to 7s. 6d. per lb.

LEMONGRASS.—Spot quotations are at from 6s. 9d. per lb.; shipment, 6s. 5d., c.i.f. An easier market.

ORANGE.—Sicilian bitter, for shipment, is quoted at 13s. to 13s. 6d. per lb., c.i.f.; nominal spot value, 15s. to 17s. Jamaican bitter is quoted at 15s., spot. West African sweet, from 7s. 9d., spot; shipment, 6s. 6d. per lb., c.i.f.

PALMAROSA.—Quoted on spot at 34s. per lb.; shipment, new-crop, 26s. 6d., c.i.f.

ROSEMARY.—Spanish is offered at 7s. to 9s. per lb., as to quantity and quality.

SANDALWOOD.—Mysore oil is offered at prices from 60s. to 67s. 6d. per lb.; English-distilled, about 75s. per lb.

THYME. — Red oil (40-42 per cent. phenols), 12s. 6d. to 15s. per lb.; white oil, 17s. to 18s. 6d. per lb., spot; lower prices for supplies to come forward.

ZANZIBAR CLOVES

IN A REVIEW for the third quarter of 1948, the Zanzibar Clove Growers' Association estimates that the total crop from the Protectorate for the first three months of the seasonal year 1948-49 will be fully 5 lakhs (500,000) frasilas (7,800 tons). Of this total Pemba is expected to provide 4 lakhs. Though considerably better than the previous season, the estimated crop is considerably below maximum productive capacity. Annual high variability of yield is common to cloves in the Protectorate. Picking of the "Mwaka" crop has been in progress since July, but some falling away in supplies may be expected until the "Vuli" crop is ready later in the year. Supplies for the three months have totalled 2,959.957 lb., of which 2,902,843 lb. passed through the Zanzibar central market, and 51,666 lb. through the Association's depôt; 5,448 lb. was offered to and purchased by the Association. During the period July-September, 1948, the United Kingdom took 201,600 lb. of clove oil.

COMING EVENTS

Monday, January 10

HARROW BRANCH, PHARMACEUTICAL SOCIETY, Oak Hall, Baptist Church, College Road, Harrow, at 7.30 p.m. Dr. C. H. Hampshire (secretary, British Pharmacopœia Commission) on "The B.P., 1948."

SOUTHAMPTON BRANCH, PHARMACEUTICAL SOCIETY, Polygon Hotel, Southampton, at 7.30 p.m. Mr. B. J. Thomas, M.P.S., on "Modern Developments in Pharmaceutics."

Tuesday, January 11

CROYDON BRANCH, PHARMACEUTICAL SOCIETY, Café Royal, North End, Croydon, at 7.45 p.m.. Professor B. W. Windeyer on "Recent Advances in the Treatment of Cancer."

LEICESTER AND LEICESTERSHIRE BRANCH, PHARMACEUTICAL SOCIETY, Boots' Café, Gallowtree Gate, Leicester, at 7.30 p.m. Mr. H. N. Linstead, M.P., on "Topical Affairs relating to Pharmacy," preceded by informal discussion, 7-7.30 p.m.

NOTTINGHAM BRANCH, PHARMACEUTICAL SOCIETY, MEDICO-CHIRURGICAL SOCIETY, 64 St. James' Street, Nottingham, at 7.15 p.m. Dr. J. E. C. Walker, M.B., Ch.B. (radiologist, Burton-on-Trent group of hospitals) on "Diagnostic Radiology."

PRESTON PHARMACISTS' ASSOCIATION. Visit to pharmacy, light and *x*-ray departments of Preston Royal Infirmary. Meet Stanleyfield Road entrance at 7.30 p.m.

SOUTH-EASTERN [LONDON] CHEMISTS' ASSOCIATION, Grove Tavern, 26 Camberwell Grove, London, S.E.5, at 7.30 p.m. Mr. E. Skues (a member of the National Pharmaceutical Union Executive) on "The Work of the N.P.U."

Wednesday, January 12

BIRMINGHAM PHARMACEUTICAL ASSOCIATION. Visit to performance of "White Horse Inn," at 7.15 p.m. (Particulars from Mr. D. J. Rushton, 1088 Stratford Road, Birmingham, 28.)

GLASGOW AND SOUTH-WESTERN SCOTTISH BRANCH, PHARMACEUTICAL SOCIETY, 220 St. Vincent Street, Glasgow, at 7.30 p.m. Dr. G. R. Boyes, B.Sc., F.R.I.C., on "Medicines from Munitions."

LEEDS BRANCH, NATIONAL PHARMACEUTICAL UNION, Mansion Hotel, Roundhay, 8 p.m.-1 a.m. Dance. Tickets 10s. 6d. each including buffet.

LIVERPOOL CHEMISTS' ASSOCIATION, Town Hall, Liverpool, at 7.30 p.m. Reception by Lord Mayor of Liverpool in honour of centenary of Association.

MANCHESTER PHARMACEUTICAL ASSOCIATION, Council Chamber, Houldsworth Hall, Manchester, at 7.30 p.m. Whist drive.

SUNDERLAND TECHNICAL COLLEGE, PHARMACY DEPARTMENT, at 3.30 p.m. Prize distribution by Mr. G. R. Trease, B.Pharm., Ph.C., F.R.I.C. (head of pharmacy department, Nottingham University). Pharmacists and pharmacy students invited.

WEST GLAMORGAN BRANCH, PHARMACEUTICAL SOCIETY, Mackworth Hotel, Swansea, at 7.45 p.m. Mr. C. Beaven, Ph.C., A.R.I.C., on "The Riddle of Allergy" (illustrated with lantern slides).

Thursday, January 13

PHARMACEUTICAL SOCIETY OF GREAT BRITAIN, 17 Bloomsbury Square, London, W.C.1, at 7.30 p.m. Miss Agnes Lothian, Ph.C., A.L.A. (the Society's librarian) on "London and Pharmacy in the Seventeenth Century" (illustrated with lantern slides.)

BIRKENHEAD AND WIRRAL PHARMACISTS' ASSOCIATION, Bridge Inn, Port Sunlight, 7.15 for 7.30 p.m. Annual dinner. Tickets (17s. 6d. each).

EDINBURGH SECTION, CHEMICAL SOCIETY, North British Station Hotel, at 7.30 p.m. Dr. T. R. Bolam on "Amphipathic Behaviour in Colloid Systems."

CROYDON. Refresher course for pharmacists commences at Croydon Polytechnic on January 10 at 7.30 p.m.

PHARMACEUTICAL SOCIETY OF NORTHERN IRELAND is holding an informal meeting at its headquarters in Belfast on Monday, January 17. Speaker: Mr. Andrew W. Kernahan (superintendent, Northern Ireland Drug Pricing Bureau).

WEST HAM ASSOCIATION OF PHARMACISTS is holding its annual dinner and dance at Bush House Restaurant, Aldwych, London, W.C.2, on Thursday, February 24. Particulars from Mr. W. H. Cloud, 45 Longbridge Road, Barking, Essex (Telephone Rippleway 3829).

TRADE MARKS

(*From the "Trade Marks Journal," December 24, 1948*)

"CERTO-PAN"; by Reginald Loftus (Photographic) Ltd., Southampton; 666,554. For panchromatic photographic films (1).

"EKTA"; by Kodak, Ltd., London, W.C.2; 664,263. For photographic chemicals and sensitised materials (1).

"CROISETTE"; by P. Samuelson & Co., London, E.C.3; 652,715. For compounds of essential and synthetic oils for use as perfume bases (3).

"SWANSTON"; by Elder Dempster (Canary Islands), Ltd., Liverpool; B656,417. For mottled soap (3).

"TRE TESTE" and device of three women's heads by Arnoldo Pacifici, Rome; 657,582-83. For tooth-powders and soaps (3). For razors and razor-blades (8).

"COLOGNE RUSSE" and device of woman's head by R. Hovenden & Sons, Ltd., London, W.1; 656,505. For eau de Cologne (3).

"CARLOTTA DESTINO" on label design; by Carlotta Destino, Ltd., Harrow; 660,378. "KNAVE OF HEARTS" and "KNAVE OF SPADES"; by James Scott St. Barbe Baker, London, N.16; 665,215-16. For non-medicated toilet preparations (3).

"FANFARE"; by Haircraft Products, Ltd., London, E.C.2; 666,567. For hair preparations (3).

"DUPLIQUE"; by Henry Leiter, Birmingham; 666,840. For cosmetic cases (3).

"FERRALCANE"; by Ciba, Ltd., Basle; 667,647. For all goods (3).

"CARBOVAG"; by the Crown Chemical Co., Ltd., Tonbridge; 658,893. For pharmaceutical preparations for veterinary use (5).

"FERRIVENAN"; by Benger's, Ltd., Holmes Chapel; 662,724. "DIMEZATHINE"; by Imperial Chemical (Pharmaceuticals), Ltd., Slough; 668,765. "CALPED"; by Calmic, Ltd., Crewe; 663,803. "MASTOFAX" and "PROHAEMIN"; by the Wellcome Foundation, Ltd., London, N.W.1; 665,100 and B665,103. "SUPERTUMOLYSE" and "TUMOLYSE"; by Humblet Laboratories, Ltd., London, E.C.2; B665,446 and B665,448. For pharmaceutical preparations (5).

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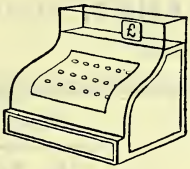

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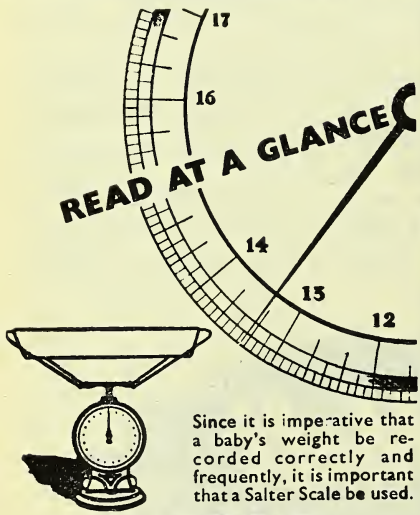

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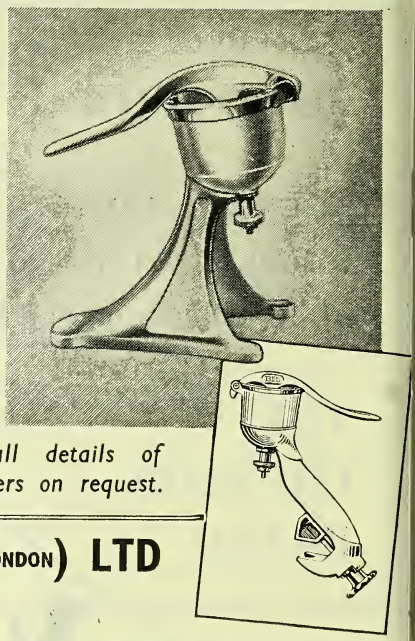

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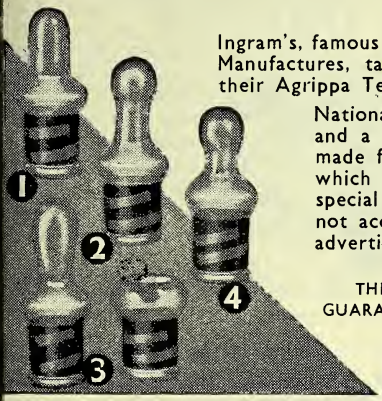

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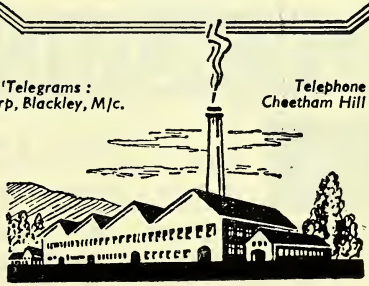

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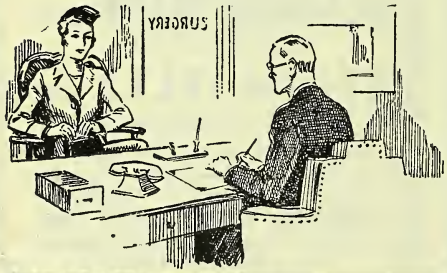

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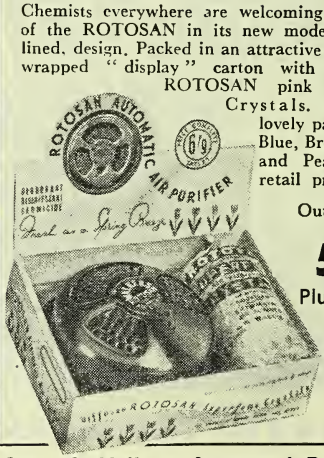

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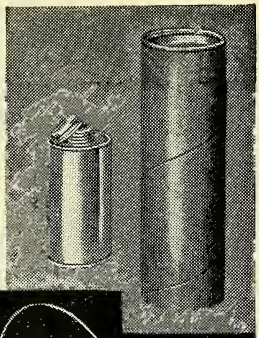

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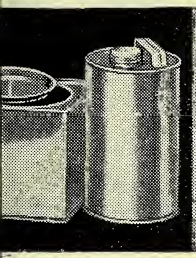

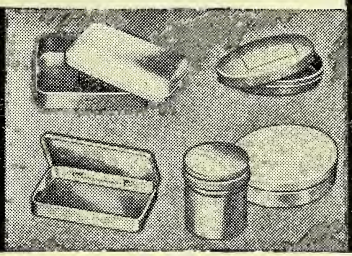

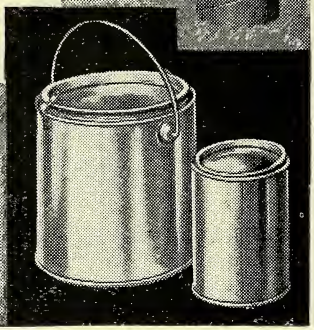

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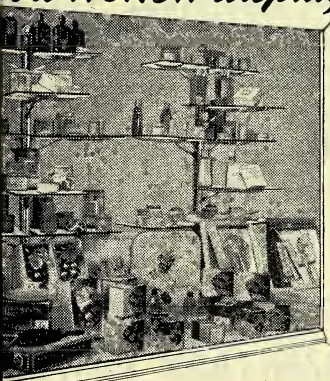

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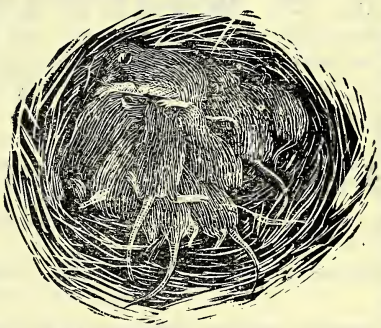

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